# Index Page:

Sr.	Description	Page	Date	Faculty
No		No		Signature
1	Installing and setting up the python IDLE interpreter. Executing simple statements like expression statements (numeric and Boolean types), assert, assignment, delete statements, the print function for output, the input function.	03	31/07/23	
2	Programs based on conditional constructs	09	07/08/23	
	(if, if else, if elif else, nested if).			
3	Programs based on for statement and the	15	21/08/23	
	range function, using break and continue			
	statements.			
4	Programs based on the while statements.	19	04/09/23	
5	Programs related to string manipulation.	22	11/09/23	
6	Programs related to lists and list	30	18/09/23	
	comprehensions.			
7	Program related to dictionaries.	35	06/09/23	
8	Programs related to functions.	38	08/10/23	
9	Programs to read and write files.	40	16/10/23	
10	Program to demonstrate exception	48	17/10/23	
	handling.			
11	Program to demonstrate the use of	49	19/1023	
	regular expressions.			
12	Programs related to database handling.	51	20/10/23	

#### **PRACTICAL 1: BASICS**

#### Executing simple statements like expression statements (numeric and Boolean type)

A NDLESH File Sait	will 3 M // Shell Debug Options Window Hop	- 0 X
	Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AM	064)]
	on win32	
	Type "help", "copyright", "credits" or "license()" for more inform	ation.
>>>	2+18	
	20	
>>>	56-30	
	26	
>>>	35/7	
	5.0	
>>>	5*6	
	30	
>>>	2**9	
	512	
>>>	x=10	
>>>	y="10"	
	x==y	
	False	
>>>	x!=y	
	True	
		Lm 24 Col
>>>	z=50	
>>>	x>z	
	False	
>>>	x <z< td=""><td></td></z<>	
	True	
>>>		

# **<u>> OPERATOR PRECEDENCE AND ASSOCIATIVITY</u>**

```
A IDLE Shell 3.11.0
                                                                              - 0 X
File Edit Shell Debug Opti-
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
   on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>> 23-45+32
   10
>>> 23*34/3
   260.666666666666
>>> 34**5/2
    22717712.0
>>> 23>34 and 23>22 or 34>64
   False
>>> 23<35 and 34>53 or 34>43
   False
>>> 56<34 and 74>45 or 34<34
   False
>>> (56*67)/6786
   0.5529030356616563
>>> 76/68*56
   62.58823529411765
```

#### ➢ ASSERT STATEMENTS

```
A IDLE Shell 3.11.0
                                                                         - 🗆 🗙
File Edit
       bug Options
    Shell
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
   on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>> #assert
>>> #if condition returns True, then nothing happens:
>>> x="hello"
>>> assert x=="hello"
>>> #if condition returns False, AssertionError is raised:
>>> assert x=="goodbye"
   Traceback (most recent call last):
     File "<pyshell#5>", line 1, in <module>
       assert x=="goodbye"
   AssertionError
>>>
```

```
A IDLE Shell 3.11.0
                                                                          - 0 X
File Edit
     hell Debug Options Window Help
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
   on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>> no=10
>>> no+=3
>>> no
    13
>>> no-=5
>>> no
    8
>>> no*=5
>>> no
   40
>>> no/=2
>>> no
   20.0
>>>
```

#### ➤ ASSIGNMENT STATEMENT

## **<u>> DELETE STATEMENT</u>**

```
DLE Shell 3.11.0
                                                         - 🗆 X
File Edit Shell Debug Options Window Help
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
   on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>> a=50
>>> b=70
>>> c=10
>>>a,b,c
   (50, 70, 10)
>>> del a
>>> a
   Traceback (most recent call last):
     File "<pyshell#5>", line 1, in <module>
      a
   NameError: name 'a' is not defined
>>>b
   70
>>> c
  10
>>>
```

```
IA DEESwell 310 - 0 ×
The East Skell Debug Option: Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> x="hello world"
>>> print(x)
hello world
>>> y="abc"
>>> print('hello',y)
hello abc
>>>
```

#### > PRINT FUNCTION

1. Write a python program to declare three variables with values (i.e, principle,Rate of interest and No of years) and display the simple interest amount(Script mode).

```
File Lait Format Ran Options Window Help
#Program to implement simple interest calculator.
p=int(input("Enter the principle Amount:"))
n=int(input("Enter the No. of years:"))
r=int(input("Enter the Rate of interest:"))
SI=p*n*r/100
print("Simple Interest is",SI)
```

2. Write a python program to declare a variable "Name check" assign a string value to it.Demonstrate the use of assert statements to check the correct name stored in variable.

```
FullHeating

Taylor Def Delig Optime Notice Hep

Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]

on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>> name='Saif'

>>> assert (name=='Saif'),'invalid name'

>>> #nothing happens as condition is true

>>> assert (name=='Yadav'),'invalid name'

File "<pyshell#3>", line 1, in <module>

assert (name=='Yadav'),'invalid name'

AssertionError: invalid name
```

3. Demonstrate working of del()

```
process with Dice Other Water Hes
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> a=['apple', 'banana', 'pear', 'kiwi']
>>> del a[2]
>>> a
_ ['apple', 'banana', 'kiwi']
>>> del a[2]
>>> a
```

4. Write a python program to display the value stored in variables (Names, Class, Address, Date of Birth).

```
fname="Mary"
lname="Poppins"
course="FYBSC-CS"
sem=1
address=="Mayfair apt, Bandra (west)"
dob="12/12/2005"
hsc percent = 83.50
print("*****STUDENTS DETAILS****")
print("Full name: {} {}".format(fname,lname))
print("Course/Sem: {}/ {}".format(course,sem))
print("Address:",address)
print("Date of Birth:",dob)
print("HSC %: ",hsc percent)
****STUDENTS DETAILS****
Full name: Mary Poppins
Course/Sem: FYBSC-CS/ 1
Address: Mayfair apt, Bandra (west)
Date of Birth: 12/12/2005
HSC %: 83.5
```

## **INPUT FUNCTION**

1. Write a python program to take input form user and perform basic arithmetic operations.

2. Write a python program to take the input (i.e, radius of a circle) from the user and display the area of a circle and circumference of a circle.

```
A add and sub.py - C/Sall works/add and sub.py (3.11.0)
                                                                      C ×
File Edit Format Run Options Window Help
print("$$$$Area and Circumference of circle$$$$")
radius=float(input("Enter Radius:"))
area=3.14*radius**2
circumference=2*3.14*radius
print("Area of a circle:", area)
print("Circumference of a circle", circumference)
    >>>
   $$$$Area and Circumference of circle$$$$
   Enter Radius:5
   Area of a circle: 78.5
   Circumference of a circle 31.40000000000002
>>>
```

3. Write a python program to take a input (i.e. length and breadth) from the user and display the area of a rectangle.

```
/* #diadoubly-Cylaffeorkyadd adduby Ullip
The Lat Termit Non Outrow Hete
l=int(input("Enter length of rectangle:"))
b=int(input("Enter breadth of rectangle:"))
area=l*b
print("Area of a rectangle",area)
>>>
Enter length of rectangle:10
Enter breadth of rectangle:3
Area of a rectangle 30
>>>
```

4. Write a python program to take the input (i.e. table of) from the user and display multiplication table of it.

```
add and sub.py - C;/Saif works/add and sub.py (3.11.0)
                                                                                 D X
File Edit F
print("#####Multiplication Table#####")
n=int(input("Enter a number:"))
print(n, 'X 1 =', n*1)
print(n, 'X 2 =', n*2)
print(n,'X 3 =',n*3)
print(n, 'X 4 =', n*4)
print(n, 'X 5 =', n*5)
print(n, 'X 6 =', n*6)
print(n, 'X 7 =', n*7)
print(n, 'X 8 =', n*8)
print(n, 'X 9 =', n*9)
print(n, 'X 10 =', n*10)
DLE Shell 3.11.0
                                                                                O X
     Shell D
    Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
    on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>>
    #####Multiplication Table#####
    Enter a number:12
    12 \times 1 = 12
    12 \times 2 = 24
    12 \times 3 = 36
    12 \times 4 = 48
    12 \times 5 = 60
    12 \times 6 = 72
    12 \times 7 = 84
    12 \times 8 = 96
    12 \times 9 = 108
    12 \times 10 = 120
```

## Get Multiple inputs from a user in one line

5. Write a python program to take the input (i.e. Student name, Class, Roll no, Date of birth, Address, Contact no) from the user and display the ID card Details.

```
add and sub.py - C;/Saif works/add and sub.py (3.11.0)
                                                                      - 0 ×
File Edit Format Run Options Wind
name, course=input("Enter name, course separated by space:").split()
print ("Name, Course", name, course)
dob=input("Enter your date of birth:")
addr=input("Enter address:")
rollno=int(input("Enter rollno:"))
contact=int(input("Enter contact:"))
print("*****ID CARD DETAILS*****")
print("Roll no:",rollno)
print("Students name:", name)
print("Course:", course)
print("Date of birth:", dob)
print("Contact:", contact)
A IDLE Shell 3.11.0
                                                                          - 🗆 🗙
File Edit
   Shell Debug Options
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
   on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>>
   Enter name, course separated by space: SAIF FYBSC-CS
   Name, Course SAIF FYBSC-CS
   Enter your date of birth: 30/10/2005
   Enter address:kurla(w)
   Enter rollno:14
   Enter contact: 7453058211
   ******ID CARD DETAILS******
   Roll no: 14
   Students name: SAIF
   Course: FYBSC-CS
   Date of birth: 30/10/2005
   Contact: 7453058211
```

# **PRACTICAL 2: CONDITIONAL STATEMENTS**

1. Take a number from user and write a program to check whether a number is odd or even.

## **CODE AND OUTPUT:**

```
A student report cardipy - C/Sall works/student report cardipy (3.11.0)
File Edit Format Run Options Window Help
                                                              - 0
num=int(input("Enter a number:"))
if num%2==0:
  print ("The Number is Even")
else:
   print("The Number is Odd")
DLE Shell 3.11.0
                                                     - - >
    Shell Debug Options Window Hel
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
   on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>>
   Enter a number:5
   The Number is Odd
>>>
   Enter a number:6
   The Number is Even
```

2. Take three inputs from user for three sides of triangle. Write a program to check whether triangle is equilateral, isosceles or scalene.

## **CODE AND OUTPUT:**

```
A student report card.py - C:/Saif works/student report card.py (3.11.0)
File Edit Format Run Options Window Help
                                                                       - 0
s1=int(input("Enter a first side of triangle:"))
s2=int(input("Enter a second side of triangle:"))
s3=int(input("Enter a third side of triangle:"))
if s1==s2==s3:
    print("The Triangle is Equilateral")
elif s1==s2 or s2==s3 or s1==s3:
    print("The Triangle is Isosceles")
else:
    print("The Triangle is Scalene")
>>>
    Enter a first side of triangle:4
   Enter a second side of triangle:4
   Enter a third side of triangle:5
   The Triangle is Isosceles
```

3. Generate a Student Report Card, by taking inputs from the student as follows: Check percentage with grade, Student first name and last name, Course, sem, roll no, and Marks of 5 Subjects. Calculate the following and provide the: i) Percentage

percent

>=80

>=70
>=60
>=50
>=40
<40 ii)
Grade
grades
0
А
В
С
D
F
iii) Status: PASS or FAIL.

# **CODE AND OUTPUT:**

```
A student report card,py - C/Salf works/student report card py (3.11.0)
File Edit Tormat Kun Options Window Help
                                                                             0 X
fname=input("Enter your first name:")
lname=input("Enter your last name:")
course=input("Enter your course:")
sem=int(input("Enter your semester:"))
rollno=int(input("Enter your rollno:"))
sub1=int(input("Enter your English marks:"))
sub2=int(input("Enter your Physics marks:"))
sub3=int(input("Enter your Chemistry marks:"))
sub4=int(input("Enter your Maths marks:"))
sub5=int(input("Enter your Biology marks:"))
percent=(sub1+sub2+sub3+sub4+sub5)/500*100
grade=''
if percent>=80:
    grade="0"
elif percent>=70 and percent<80:
    grade="A"
elif percent>=60 and percent<70:
    grade="B"
elif percent>=50 and percent<60:
elif percent>=40 and percent<50:
    grade="D"
else:
    grade="F"
status="FAIL"
if grade=="0" or grade=="A" or grade=="B" or grade=="C" or grade=="D":
    status="PASS"
print("*****STUDENT REPORT CARD*****")
print("Full Name: {} {}".format(fname,lname))
print("Course/Sem: {}/{}".format(course,sem))
print("Rollno:", rollno)
print("Percentage:",percent)
print("Status:", status)
IDLE Shell 3.11.0
                                                                          - 0 ×
File Edit Shell Debug Options Window Help
>>>
   Enter your first name: Chaudhary Mohammad
   Enter your last name:Saif
   Enter your course: FYBSC-CS
   Enter your semester:1
   Enter your rollno:14
   Enter your English marks:76
   Enter your Physics marks:72
   Enter your Chemistry marks: 67
   Enter your Maths marks:70
   Enter your Biology marks:78
   *****STUDENT REPORT CARD*****
   Full Name: Chaudhary Mohammad Saif
```

Course/Sem: FYBSC-CS/1

Rollno: 14

Percentage: 72.6 Status: PASS 4. Write a python program to accept two numbers from the user and check if it is a positive or negative integer. If it is positive then compare the 2 numbers and print the result(greatest).

## **CODE AND OUTPUT:**

```
A *positive.py - C:/Saif works/positive.py (3.11.0)*
File Edit Format Run Options Window Help
                                                       - 0
a=int(input("Enter a number a:"))
b=int(input("Enter a number b:"))
if a>0 or b>0:
   print("The Number is Positive")
   if a>b:
      print("a is greater")
   else:
      print("b is greater")
else:
   print("The Number is negative")
A IDLE Shell 3.11.0
                                               - 0
File Edit Shell Debug Options Window Help
  Type "help", "copyright", "credits" or "license()" for more information.
>>>
  Enter a number a:2
  Enter a number b:4
  The Number is Positive
  b is greater
>>>
   Enter a number a:-1
  Enter a number b:3
  The Number is Positive
  b is greater
>>>
   Enter a number a:-1
  Enter a number b:-3
  The Number is negative
```

5. Python Program to implement the Rock, Paper, Scissor game.

# **CODE AND OUTPUT:**

```
A *positive.py - C./Sail works/positive.py (3.11.0)*
File Edit Format Run Options Window Het
                                                                     - 0 >
pl=int(input("'1.ROCK, 2.PAPER, 3.SCISSOR'PLAYER 1 Enter your choice:"))
p2=int(input("'1.ROCK, 2.PAPER, 3.SCISSOR'PLAYER 2 Enter your choice:"))
if p1>3 or p2>3 or p1==0 or p2==0:
   print ("Enter a valid option.")
else:
   if p1==p2:
        print("It's DRAW.")
   elif p1==1:
        if p2==2:
             print ("PLAYER 2 WINS.")
         else:
             print("PLAYER 1 WINS.")
   elif p1==2:
        if p2==1:
             print ("PLAYER 1 WINS.")
        else:
            print ("PLAYER 2 WINS.")
   else:
        if p2==1:
```

print("PLAYER 2 WINS.")

else:

print("PLAYER 1 WINS.")

A 1015 Stell 311.0 File Edit Shell Debug Options Winds - 0 > Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information. >>> ======= RESTART: C:/Saif works/positive.py === '1.ROCK, 2.PAPER, 3.SCISSOR'PLAYER 1 Enter your choice:1 '1.ROCK, 2.PAPER, 3.SCISSOR'PLAYER 2 Enter your choice:2 PLAYER 2 WINS. >>> '1.ROCK, 2.PAPER, 3.SCISSOR'PLAYER 1 Enter your choice:2 '1.ROCK, 2.PAPER, 3.SCISSOR'PLAYER 2 Enter your choice:3 PLAYER 2 WINS. >>> '1.ROCK, 2.PAPER, 3.SCISSOR'PLAYER 1 Enter your choice:3 '1.ROCK, 2.PAPER, 3.SCISSOR'PLAYER 2 Enter your choice:1 PLAYER 2 WINS.

# **PRACTICAL 3: FOR STATEMENTS**

1. Write a program to the sum of numbers from 1 to n where n is user input.

Code:

```
if or loops.py - C:/Saif works/for loops.py (3.11.0)
Eile Edit Format Run Options Window Help
number=int(input("Enter the number:"))
sum=0
for i in range(1,number+1):
    sum=sum+i
print(sum)
```

## **Output:**

2. Write a program to print the sum of series

 $y=x^1+x^2+x^3+...x^n$  where x and n are user inputs.

#### Code:

```
int (input ("Enter the base number:"))
sum=0
for i in range(1,n+1):
    sum=sum+x**i
print("Sum of the series is",sum)
```

**Output:** 

3. Write a program to accept a number and check whether it is prime. **Code:** 

```
a for loops.py - C:/Saif works/for loops.py (3.11.0)
Eile Edit Format Run Options Window Help
n=int(input("Enter the number:"))
for i in range(2,n):
    if n%i==0:
        print("The number is not a prime number")
        break
else:
```

```
print("The number is a prime number")
```

```
Output:
```

```
0
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
  Type "help", "copyright", "credits" or "license()" for more information.
>>>
                   ==== RESTART: C:/Saif works/for loops.py ========
  Enter the number:2
  The number is a prime number
>>>
               ======= RESTART: C:/Saif works/for loops.py ===========
   Enter the number:4
   The number is not a prime number
>>>
         Enter the number:5
  The number is a prime number
>>>
```

4. Write a program to print Fibonacci series for n terms.

loops.py - C:/Saif works/for loops.py (3.11.0)

<u>File Edit Format Run Options Window H</u>elp

```
a=0
b=1
print(a)
print(b)
for i in range(1,9):
    c=a+b
    print(c)
    a,b=b,c
```

## **Output:**

```
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>
0
1
1
1
2
3
5
8
13
21
34
>>>
```

5. Write a program to accept a string and display characters that are present at even index.

## Code:

```
if or loops.py - C:/Saif works/for loops.py (3.11.0)
Eile Edit Format Run Options Window Help
string=input("Enter a string:")
for i in string:
    if (string.index(i))%2==0:
        print(i)
```

**Output:** 

```
A IDLE Shell 3.11.0
Eile Edit Shell Debug Optio
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>>
                Enter a string: coding
   C
   d
   n
>>>
                        == RESTART: C:/Saif works/for loops.py ========
   Enter a string:python
   p
   t
   0
>>>
```

6. Write a program to print the below given pattern

```
*
 **
 **
 ***
 ****
Code:
 for loops.py - C:/Saif works/for loops.py (3.11.0)
 Eile Edit Format Run Options Window Help
for i in range(1,6):
    print("*"*i)
```

#### **Output:**

# **PRACTICAL 4: WHILE STATEMENTS**

1. Write a program to accept a number and print a factorial of a number. **Code:** 

```
while loop.py - C:/Saif works/while loop.py (3.11.0)
File Edit Format Run Options Window Help
n=int(input("Enter a number:"))
if n>=0:
    if n==0 or n==1:
        print("Factorial is 1")
    else:
        fact=1
        i=1
        while i<=n:
            fact=fact*i
            i+=1
        print(fact)</pre>
```

## **Output:**

```
A IDLE Shell 3
                                             - 0 )
Eile Edit Shell
  Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
  Type "help", "copyright", "credits" or "license()" for more information.
>>>
       Enter a number:5
  120
>>>
       Enter a number:7
  5040
>>>
             ====== RESTART: C:/Saif works/while loop.py ======
  Enter a number:1
  Factorial is 1
>>>
```

2. Write a program to accept a number and check if it is palindrome or not.

```
while loop.py - C:/Saif works/while loop.py (3.11.0)
File Edit Format Run Options Window Help
```

```
n=int(input("Enter a number:"))
rev=0
num=n
while n>0:
    d=n%10
    rev=rev*10+d
    n=n//10
if num==rev:
    print("The number is a palindrome")
else:
    print("The number is not a palindrome")
```

#### **Output:**

```
A IDLE Sh
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>>
                 ====== RESTART: C:/Saif works/while loop.py =======
   Enter a number:1551
   The number is a palindrome
>>>
                ======= RESTART: C:/Saif works/while loop.py ===
   Enter a number:1234
   The number is not a palindrome
>>>
       Enter a number:1331
   The number is a palindrome
>>>
```

3. Write a program to create a menu driven banking program. The user should be able to deposit, withdraw, and check balance with necessary conditions in place.

```
🔒 while loop.py - C:/Saif works/while loop.py (3.11.0)
File Edit Format Run Options Window Help
acc no=int(input("Enter your account no:"))
amt=int(input("Enter current amount:"))
while True:
    print("Choose one among the following options")
    print("1.Withdraw 2.Deposit 3.Check balance")
    ch=input("Enter your choice (1,2or3):")
    if (ch=='1'):
         wamt=int(input("Enter amount to withdraw:"))
         if wamt<=amt:
              amt-=wamt
         else:
             print("insufficient balance")
    elif(ch=='2'):
         damt=int(input("Enter amount to deposit:"))
         amt+=damt
    elif(ch=='3'):
         print(f"Account no{acc no} Current balance is{amt}")
    else:
         print("Enter a valid option")
    x=input("Do you want to continue (Y,N)")
    if x=='N':
         break
```

#### **Output:**

```
A IDLE Shell 3.11.0
File Edit Shell Debug Opt
   Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>>
                    ===== RESTART: C:/Saif works/while loop.py =====
   Enter your account no:56437850
   Enter current amount: 6000
   Choose one among the following options
   1.Withdraw 2.Deposit 3.Check balance
   Enter your choice (1,2or3):1
   Enter amount to withdraw:4000
   Do you want to continue (Y,N)Y
   Choose one among the following options
   1.Withdraw 2.Deposit 3.Check balance
   Enter your choice (1,2or3):2
   Enter amount to deposit:2000
   Do you want to continue (Y,N)Y
   Choose one among the following options
   1.Withdraw 2.Deposit 3.Check balance
   Enter your choice (1,2or3):3
   Account no56437850 Current balance is4000
   Do you want to continue (Y,N)N
>>>
```

4. Write a program to accept numbers from user and calculate sum of numbers until user enters zero.

#### **Output:**

```
We lost Seed Debug Options Window Heip
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>
Enter a number:12
Enter a number:12
Enter a number:34
Enter a number:3
Enter a number:5
Enter a number:0
The sum of the number is 56
>>>
```

# **PRACTICAL 5: STRING FUNCTIONS**

Aim: String operations & String Functions.

## **String Operations**

1. Assignment Operator "="



2. Concatenate Operator "+".

Code and Output:

In [3]: M s1="Welcome"
s2="Home"
s3=s1+s2
print(s3) WelcomeHome

3. String Repetition Operator "\*".

Code and Output:



4. String Slicing Operator "[]".

In [7]:	<pre>print(str1[1]) print(str1[-3]) print(str1[1:5])</pre>
	<pre>print(str1[1:-3]) print(str1[2:])</pre>
	print(str1[:5])
	<pre>print(str1[:-2]) </pre>
	<pre>print(str1[-2:]) print(str1[::-1])</pre>
	y
	ytho
	ythonWo
	thonWorld
	Pytho District State Sta
	PythonWor ld
	drownohtyP

5. String Comparison Operator "==" & "!=".

#### Code and Output:

In [9]: N str1= "Welcome" str2 = "Welcome,Home" str3 = "Welcome,Home" str4 = "Home" print(str1=str4) print(str2=str3) print(str1!=str4) print(str2!=str3) False True False

6. Membership Operator "in" & "not in".

```
In [10]: # str1= "helloworld"
print("w" in str1)
print("t" in str1)
print("t" in str1)
print("t" not in str1)
print("hello" in str1)
print("hello" in str1)
print("hello" not in str1)
True
True
False
True
False
False
False
False
```

# **String Functions**

1. upper ():

Code and Output:

In	[1]:	M	<pre>text = "sweet home" result = text.upper() print(result)</pre>
			SWEET HOME

# 2. lower()

Code and Output:

In [2]: H text = "SWEET HOME"
result = text.lower()
print(result)
sweet home

# 3. capitalize()

Code and Output:

I	n [3	3]:	M	<pre>text = "python programming" result = text.capitalize() print(result)</pre>	
1	n [:	•]:	PI	result = text.capitalize()	

Python programming

4. len()

Code and Output:

```
In [4]: H text = "Hello, how are you?"
length = len(text)
print(length)
19
```

5. count()

Code and Output:

```
19
In [5]: N text = "Lezy Dog"
count = text.count("o")
print(count)
1
```

6. find()

```
In [6]: N text = "Python programming are object oriented."
index = text.find("object")
print(index)
23
```

7. center()

## Code and Output:

In [7]: N text = "Jupyter Notebook"
 ct = text.center(20, '-')
 print(ct)
 --Jupyter Notebook--

## 8. replace()

#### Code and Output:

```
In [8]: # text = "I like apples, but I don't like bananas."
new_text = text.replace("apples", "oranges")
print(new_text)
I like oranges, but I don't like bananas.
```

## 9. join()

Code and Output:



**10.** strip()

Code and Output:

In [10]: H text = " Hello, World! "
stripped\_text = text.strip()
print(stripped\_text)
Hello, World!

11. islower()

Code and Output:

In [11]: 
text ="python programming"
result = text.islower()
print(result)
True

12. isupper()

Code and Output:

In [12]: N text = "PYTHON PROGRAMMING"
result = text.isupper()
print(result)
True

13. isalnum()

Code and Output:

In [10]: H text = " Hello, World! "
stripped\_text = text.strip()
print(stripped\_text)
Hello, World!

14. isdigit()

Code and Output:

```
In [14]: H text = "12345"
result = text.isdigit()
print(result)
True
```

15. isspace()

Code and Output:

In [15]: H text = ""
result = text.isspace()
print(result)
False

# 16. isprintable()

Code and Output:

```
In [16]: H text = "Hello, World!"
result = text.isprintable()
print(result)
True
```

17. format()

```
In [17]: 
name = "Alice"
age = 20
ft = "My name is {} and I am {} years old.".format(name, age)
print(ft)
My name is Alice and I am 20 years old.
```

# **PRACTICAL 6: LISTS FUNCTIONS**

# LISTS OPERATORS

# #Length(len)

LI	ST OPERATORS:-	
In [1]: 🕨	#Length (Len) len([2,4,6,8,10])	
Out[1]:	5	

#### **#Concatention**

In	[2]:	H	#CONCATENATION l1=[1,2,3] l2=[6,7,8] l3=l1+l2 l3
	Out[2]	:	13

# #Repetition

```
In [3]: ##epetition
14=11*3
14
Out[3]: [1, 2, 3, 1, 2, 3, 1, 2, 3]
```

# #Membership

In [4]: #Membership 6 in 12 Out[4]: True

# # Slicing

In [5]		#Slicing - 15=[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15] 15[8]
Ou	it[5]:	9
In [6]	]: H	15[-5]
Ou	t[6]:	11
In [7]	]: H	15[2:8]
Ou	t[7]:	[3, 4, 5, 6, 7, 8]
In [8]	]: H	15[::-2]
Ou	t[8]:	[15, 13, 11, 9, 7, 5, 3, 1]

# **LIST GENERAL FUNCTIONS:-**

#### # Length

LIST GENERAL FUNCTIONS:-

```
In [9]: H #Len(List)
len([15,16,17,18,19])
Out[9]: 5
```

## #Max & #Min



```
In [12]: ) # #List(seq)
11=(2,3,4,5)
list(11)
Out[12]: [2, 3, 4, 5]
```

# **List Specific Functions:-**

#### #Append

List Specific Functions:-

Out[13]: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 25]

#### #Count

```
In [14]: 
#count()
12=[1,2,3,1,2,3,1,2,3,1,2,3]
12.count(3)
Out[14]: 4
```

## # Extend

```
In [15]: # #extend()
13=[16,17,18]
11.extend(13)
11
Out[15]: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 25, 16, 17, 18]
```

# #Index

```
In [16]: ) #index
11.index(13)
Out[16]: 12
```

#### **#Insert**

In [17]: 🕨						,24	)															
Out[17]:	[:	1,	2,	з,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	15,	24,	25,	16,	17,	18]	

# #Pop

In	[18]:		<pre>#pop() 11.pop()</pre>	
	Out[1	8]:	18	

In [19]: 🔰 11

Out[19]: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 24, 25, 16, 17]

#### #remove

```
In [20]: 
#remove()
11.remove(24)
11
Out[20]: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 25, 16, 17]
```

#### #reverse

In [21]: 🕅	#.reverse() 11.reverse() 11
Out[21]:	[17, 16, 25, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1]

#### #sort

In	[22]: N	<pre>#sort() marks=[70,11,90,88,61,59] marks.sort() marks</pre>
	Out[22]:	[11, 59, 61, 70, 88, 90]
In	[23]: N	<pre>marks.sort(reverse=True) marks</pre>
	Out[23]:	[90, 88, 70, 61, 59, 11]

## **#Sort & Reverse**

In	[24]: N	<pre>14=["Hello","World","Python"] 14.sort(key=len) 14</pre>
	Out[24]:	['Hello', 'World', 'Python']
In	[25]: 🕨	<pre>14.sort(key=len,reverse=True) 14</pre>
	Out[25]:	['Python', 'Hello', 'World']

```
#copy
In [26]: 
#Copy()
15=14
15
Out[26]: ['Python', 'Hello', 'World']
```

## #append(list)



## **#List comprehension**

```
In [29]: N 18 = [i for i in range (1,11)]
18
Out[29]: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
In [32]: N 19=[i for i in range (len(18))if i%2==0]
19
Out[32]: [0, 2, 4, 6, 8]
```

# # Update



## #Lambda

```
In [38]: # 12=[100,50,40,20]
12.sort(key=lambda n:abs(n-50))
12
Out[38]: [50, 40, 20, 100]
```

#### # Upper and lower()

```
In [40]: W students=['Mona','Mohan','Meena','Manish']
students1=[name.upper() for name in students]
Out[40]: ['MONA', 'MOHAN', 'MEENA', 'MANISH']
In [41]: W students=['Mona','Mohan','Meena','Manish']
students1=[name.lower() for name in students]
Out[41]: ['mona', 'mohan', 'meena', 'manish']
```

## # Sortlist()

```
In [45]: # def sortlist(n):
    return abs(n-50)
diff=[]
    for i in range (len(16)):
        diff.append(sortlist(16[i]))
    diff
    Out[45]: [50, 49, 47, 46, 45, 44, 43, 42, 41, 40]
In [46]: # 16=[100,50,20,80,40]
16.sort(key=sortlist)
16
    Out[46]: [50, 40, 20, 80, 100]
```

## **PRACTICAL 7: DICTIONARY**

1. #create dictionary

```
In [1]: N 1. #create dictionary
dict1={1:"Mohan",2:"Manish",3:"Madan"}
dict2= dict(name = "John", age = 36, country =
"Norway")
dict3 = {
"brand": "Ford",
"electric": False,
"year": 1964,
"colors": ["red", "white", "blue"]
}
```

2. #len()-length of dictionary

3. #Access dictionary items

```
In [3]: H 3. #Access dictionary items
dict2['name']
dict2.get('name')
Out[3]: 'John'
```

4. #keys() - get all keys of a dictionary

```
In [4]: H 4. #keys() - get all keys of a dictionary
dict1.keys()
Out[4]: dict_keys([1, 2, 3])
```

5. #values() - get all values of a dictionary

```
In [5]: H 5. #values() - get all values of a dictionary
dict1.values()
Out[5]: dict_values(['Mohan', 'Manish', 'Madan'])
```

6. #items() - will return each item in a dictionary, as tuples in a list

```
In [6]: ) 6. #items() - will return each item in a dictionary, as tuples in a list
dict3.items()
Out[6]: dict_items([('brand', 'Ford'), ('electric', False), ('year', 1964), ('colors', ['red', 'white', 'blue'])])
```

7. #Change items

```
In [7]: N 7. #Change items
dict2[age] = 40
dict2.update({"age":50})
In [8]: N
dict2
Out[8]: {'name': 'John', 'age': 50, 'country': 'Norway'}
```

8. #Add dictionary items

```
In [9]: N 8. #Add dictionary items
dict2["gender"] ="male"
dict2.update({"contact":"9541230200"})
In [10]: N dict2
Out[10]: {'name': 'John',
    'age': 50,
    'country': 'Norway',
    'gender': 'male',
    'contact': '9541230200'}
```

9. #Remove dictionary items



10. #clear()- clear dictionary content



11. #copy()

### 12. #Nested Dictionaries#Access nested dictionary items

```
In [16]: 
##Nested Dictionaries
#Access nested dictionary items
myfamily = {
    "child1": {
        "name": "Emil",
        "year": 2004
        },
        "child2": {
            "name": "Tobias",
            "year": 2007
        },
        "child3": {
            "name": "Lirus",
            "year": 2011
        }
    }
    print("Child 2 name :" ,myfamily["child2"]["name"])
    print("Child 3 name :" ,myfamily["child3"]["year"])
    Child 2 name : Tobias
    Child 3 name : 2011
```

#### **PRACTICAL 8: FUNCTIONS**

1) Implement factorial using anonymous function.

#### **CODE AND OUTPUT:**

2) Write a program to display the payslip of an employee, where employee id and basic pay is to the function; DA=90%basicpay, HRA=40%basicpay, TA=20%basicpay and NET salary= DA+TA+HRA+basicpay.

#### **CODE AND OUTPUT:**



3) Implement a function in python to check if a number is Krishnamurthy or not.

#### **CODE AND OUTPUT:**

In [1]:	def factorial(n):
	fact=1
	for i in range(1,n+1):
	fact=fact*i
	n=n-1
	return fact
	def is krishnum(n):
	SLIB=0
	temp=n
	while(temp!=0):
	rem=temp%10
	sum=sum+factorial(rem)
	temptemp//a
	return(sum=n)
	<pre>metcon(state-try) meint(input("inter a number:"))</pre>
	main(input) Enter a noncer; )) if (is krishnum(n)):
	<pre>print("VES") else:</pre>
	print("NO")
	Enter a number:123
	NO N
	<pre>fact=1 for i in range(1,n+1):     fact=fact*i     n=n-1 return fact def is_krishnum(n):     sum=0     temp=n whlle(temp!=0):         rem=temp%10         sum=sum+factorial(rem)         temp=temp/1/10 return(sum=n) i (diret vertex = 0))</pre>
	<pre>n=int(input("Enter a number:")) if (is_krishnum(n)):     print("YES")</pre>
	if (is_krishnum(n)):

4) Implement conversion from decimal to binary using recursive function.

#### **CODE AND OUTPUT:**

In [5]: def convertToBinary(n):
 if n>1:
 convertToBinary(n/2)
 print(n%2,end=" ")
 #decimal number
 n=int(input("Enter a number:"))
 convertToBinary(n)
 print()
 Enter a number:34
 1 0 0 0 1 0

#### **PRACTICAL 9: FILE HANDLING**

Aim: - File handling in Python.

• To read the file and close.



• To close the file without using close () function.



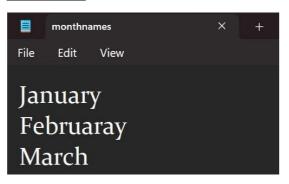
• To close the file with using for loop.

n [3]: 🕨	<pre>#to close the file without using close function. with open("C:\\User\\user\\Desktop\\Python files\\weekdays.txt")as file1:#read is always on default mode     x=file1.readlines()#in readlines() function list contents are conprised as string and gets displayed linewise.     for day in x: #printing output using for loop         print(day)</pre>
	Monday
	Tuesday
	Wednesday
	Thursday
	Friday
	Saturday
	• To write the file.

#### CODE:

In [4]: 🕨	<pre>#to write the file with open("C:\\Users\\user\\Desktop\\Python files\\monthnames.txt","w")as file1:     file1.write("January\n")     file1.write("March\n")</pre>
-----------	--

#### OUTPUT:

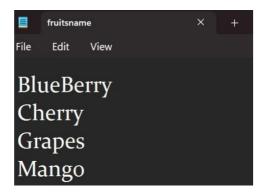


• To write with write lines () function.

#### CODE:



#### OUTPUT:



• To Append

<u>(</u>	<u>C(</u>	ODE:
In [8]:		<pre>#to append mn=["April\n", "May\n", "June\n"] with open("C:\\Users\\user\\Desktop\\Python files\\monthnames.txt", "a")as filel:     filel.writelines(mn)</pre>

#### OUTPUT:

	monthn	ames	
File	Edit	View	
Fe	nuar brua	aray	
M	arch		
Ap	oril		
M	ay		
Ju	ne		

• To read file without using read () function. (using loop function)

```
In [9]: W #to read file without using read() function (using for Loop)
with open("C:\\Users\\user\\Desktop\\Python files\\weekdays.txt")as file1:
    for line in file1:
        print(line.strip())
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
```

• Program to read numbers from input file and write its square to output file.

#### CODE:



# utputfile. )as file1, open("C:\\Users\\user\\Desktop\\Python files\\outputfile.txt","w")as file2:

#### OUTPUT:

	inputfile		×		outputfi	le	×
File	Edit	View		File	Edit	View	
2 4				4 16			
6				36			
8				36 64			
10				10			

• Write a python program with an input file comprising of an employee details namely employee name, employee code, basic salary. Create an output file as pays lip will contain employee name, employee code, basic salary, da, ta, hra and net salary.

#### CODE:



#### OUTPUT:



	payslip			×	
File	Edit	View			
Sa	if				
Ec	014				
50	000				
42	500.	0			
12	500.0	)			
30	000.	0			
13	5000	.0			

 To check the current working directory with the help of module and its function.

```
In [1]: M import os
print(os.getcwd())
C:\Users\user\Jupyter
```

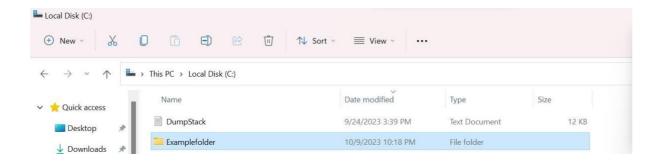
✤ To change the current working directory.

```
In [6]: ▶ os.chdir("C:\\Users\\user\\Desktop\\Python files")
print(os.getcwd())
C:\Users\user\Desktop\Python files
```

✤ To make directory.

C:\Users\user\Desktop\Python files

In [7]: ▶ os.mkdir("C:\\Examplefolder")



#### ✤ To rename a folder.

In [10]: ▶ os.rename("C:\\Examplefolder",("C:\\Pythonfolder"))

#### OUTPUT:

Local Disk (C:)						
🕂 New - 🔏	0 6 9		↑↓ Sort ×	E View ×		
$\leftrightarrow$ $\rightarrow$ $\checkmark$ $\uparrow$	> This PC > Local Disk	(C:)				
V 🔶 Quick access	Name			Date modified	Туре	Size
Desktop 🖈	DumpStack			9/24/2023 3:39 PM	Text Document	12 KB
🚽 Downloads 🖈	📒 Pythonfolder			10/9/2023 10:18 PN	1 File folder	

#### ✤ To remove

#### directory. CODE:

#### OUTPUT:

Local Disk (C:)				
🕂 New -		① ↑↓ Sort ~ ■ View ~		
← → ~ ↑	> This PC > Local Disk (C:)			
🔶 🛨 Quick access	Name	Date modified	Туре	Size
🔲 Desktop 🔹 🖈	DumpStack	9/24/2023 3:39 F	PM Text Document	12 KB
	🚞 Intel	10/9/2023 9:09 F	PM File folder	
🗸 Downloads 🛷				

To remove files. <u>CODE:</u>

			1 	
In	[11]:	M	os.remove("file1.txt")	

<u>Output: -</u>

#### Before Execution: -

E Python files		
+ New -	□ 🛅 E] 🖻 🛈 🛝 Sort	$\sim$ $\equiv$ View $\sim$ $\cdots$
$\leftrightarrow$ $\rightarrow$ $\checkmark$ $\uparrow$	> This PC > Desktop > Python files	
✓	Name	Date modified Type Size
🔄 Desktop 🛷	employeedetails	10/9/2023 9:00 PM Text Document 1 KB
🛓 Downloads 🖈	file1	10/9/2023 10:25 PM Text Document 1 KB

#### After execution: -

Python files				
🕀 New ~	□ □ □ 🗠 🗊 🛝 Sort	~ 🔳 View ~		
$\leftarrow \rightarrow \ \cdot \ \uparrow$	> This PC > Desktop > Python files			
🗸 🔶 Quick access	Name	Date modified	Туре	Size
🛄 Desktop 🔹 🖈	employeedetails	10/9/2023 9:00 PM	Text Document	1 KB
Downloads	fruitsname	10/9/2023 5:29 PM	Text Document	1 KB
🛓 Downloads 🛛 🖈				

#### **PRACTICAL 10: EXCEPTION HANDLING**

1. Write a program to catch ZeroDivisionError, Name error

#### **D** TO CATCH THE ZERO DIVISION ERROR

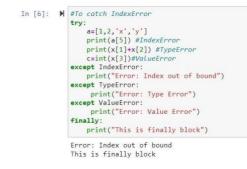


#### **D** TO CATCH THE NAME ERROR

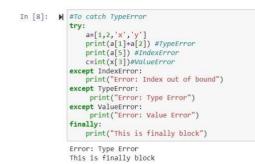


2. Write a program to catch Indexerror, typeerror, valueerror and finallyblock

#### □ TO CATCH INDEX ERROR



#### **D** TO CATCH TYPE ERRROR



#### **D** TO CATCH VALUE ERROR

# In [10]: # #To catch ValueError try: a=[1,2,'x','y'] c=int(a[3])#ValueError print(a[1]+a[2]) #TypeError print(a[5]) #IndexError except IndexError: print("Error: Index out of bound") except ValueError: print("Error: Value Error") finally: print("This is finally block") Error: Value Error This is finally block

#### **PRACTICAL 11: REGULAR EXPRESSION**

Program to demonstrate the use of regular expressions.

1.1 Username-Starts with a lowercase alphabet and can contain minimum 8 character and maximum 15 character the after starting letter can be any alphanumeric character

1.2 Mobile number – contain 10 digits

1.3 Email I'd Format

#### **CODE AND OUTPUT:**



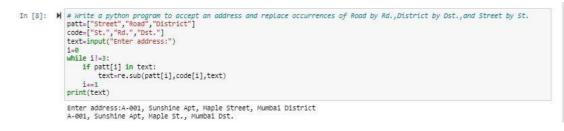
2. Write a Python function text\_match() that matches a string that has an 'a' followed by zero or more occurrence #of anything ,ending in 'b'.

#### **CODE AND OUTPUT:**

```
In [1]: # import re
def text_match(input_string):
    pattern = r'a.*b'
    matches = re.findall(pattern, input_string)
    return matches
input_string =(input("Enter a String"))
result = text_match(input_string)
print(result)
Enter a Stringabcd
['ab']
```

3. Write a python program to accept an address and replace occurrences of Road by Rd.,District by Dst. And Street by St.

#### **CODE AND OUTPUT:**



#### PRACTICAL 12: DATABASE HANDLING

\* <u>AIM</u> :- To learn database connectivity in python.

#### \* <u>CODE & OUTPUT</u> :-

##Write a database program to perform the following:-

- Show all databases in DBMS.
- Create a database named "Company".

- Create a table Employee in Company Database(empid int, empname varchar(50), designation varchar(50), basic int).
- Insert 10 records into employee table.
- Display all records of employee table.
- Display the employees details with designation as entered by the user at runtime.
- Display the employee details with basic < 20000.
- Update the basic of Manager by 30%.

#### • <u>CODE & OUTPUT</u> :-

#### #INSTALLATION OF MYSQL CONNECTOR.

In [1]: !pip install mysql-connector-python

Requirement already satisfied: mysql-connector-python in c:\eisha\lib\site-packages (8.1.0) Requirement already satisfied: protobuf<=4.21.12,>=4.21.1 in c:\eisha\lib\site-packages (from mysql-c onnector-python) (4.21.12)

##TO SHOW THE DATABASES IN 'DBMS'.

```
In [4]: import mysql.connector|
    con=mysql.connector.connect(host='localhost',database='mysql',user='root',password='')
    mycur.execute("SHOW DATABASES")
    for data in mycur:
        print(data)
    mycur.close()
        ('information_schema',)
        ('mysql',)
        ('performance_schema',)
        ('phpmyadmin',)
        ('test',)

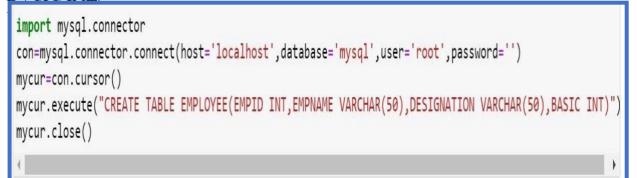
Out[4]: True
```

#### ##TO CREATE DATABASE "COMPANY".



$\leftrightarrow$ $\rightarrow$ C () localhost/phpmyad	min/	् छ ☆ झ 🛛 🚯 :
php <mark>MyAdmin</mark> ক্রন্থ ৩ ়ি ঞ ¢	- Server 127.0.0.1	Import 🥜 Settings 📗 Replication 🔻 More
Recent Favorites	General settings	Database server
<ul> <li>company</li> <li>information_schema</li> <li>mysql</li> <li>performance_schema</li> <li>phpmyadmin</li> <li>test</li> </ul>	Server connection collation:	<ul> <li>Server, 127,000,1 via FOP/IP</li> <li>Server type: MariaDB</li> <li>Server connection: SSL is not being used </li> <li>Server version: 10.4.28-MariaDB - mariadb.org binary distribution</li> <li>Protocol version: 10</li> <li>User: root@localhost</li> </ul>
	Console	<ul> <li>Server charset: UTF-8 Unicode (utf8mb4)</li> <li>Web server</li> <li>Apache/2.4.56 (Win64) OpenSSL/1.1.1t PHP/8.2.4</li> <li>Database client version: libmysql - mysqlnd 8.2.4</li> <li>PHP extension: mysqli @ curl @ mbstring @</li> <li>PHP version: 8.2.4</li> </ul>

#### ##TO CREATE A TABLE EMPLOYEE IN COMPANY DATABASE(EMPID INT, EMPNAME VARCHAR(50), DESIGNATION VARCHAR(50),



pl	hpMyAdmin
	<u>ሰ 🧃 😡 🕘 🌼 😋</u>
Recent	Favorites
N€	ew
	mpany
	New
9-34	employee
Ē	Columns
	BASIC (int, NULL, null:
	DESIGNATION (varcha
	EMPID (int, NULL, null
	EMPNAME (varchar, N
🕀 🗐 inf	formation_schema
🕀 🗐 m	ysql
🕀 🗐 pe	erformance_schema
🕀 🗐 ph	ipmyadmin
🛨 🗐 tes	st

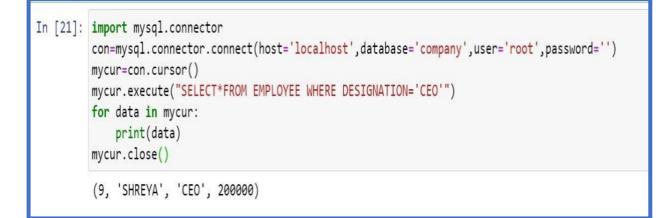
#### ##TO INSERT 10 RECORDS INTO EMPLOYEE TABLE.



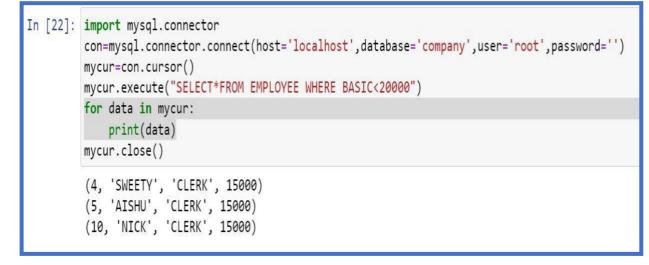
#### ##TO DISPLAY ALL RECORDS OF EMPLOYEE TABLE.



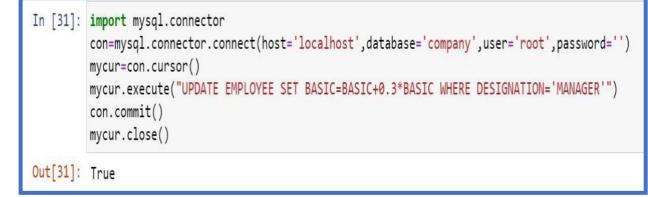
#### ##TO DISPLAY THE EMPLOYEES DETAILS WITH DESIGNATION AS ENTERED BY THE USER AT RUNTIME.



## ##TO DISPLAY THE EMPLOYEE DETAILS WITH BASIC < 20000.



#### ##TO UPDATE THE BASIC OF MANAGER BY 30%.



##BEFORE EXECUTION :-

phpMyAdmin		I Server: 127.0.0.1 » 🝵 Database: company » 🔚 Table: employee										\$
<u>☆ 4</u> 9 0 0 0 ¢	Bro	owse 🥂 S	tructure 📗 SQ	L 🔍 8	Search	Insert	Export	Handler Import	Privileges	~	More	
ecent Favorites		Show all   N	umber of rows: 2	5 ~	Filter rows:	Search t	his table					
🗐 📾	Extra opt	ions										
company	EMPID	EMPNAME	DESIGNATION	BASIC								
	1	TOM	CLERK	30000								
	2	BOB	CLERK	30000								
Columns	3	HELEN	CLERK	30000								
	4	SWEETY	CLERK	15000								
BASIC (int, NULL, nulla	5	AISHU	CLERK	15000								
DESIGNATION (varcha	6	JERRY	CLERK	30000								
-II EMPID (int, NULL, null	7	JOEY	MANAGER	90000								
EMPNAME (varchar, N	8	SURYA	ASST.MANAGER	50000								
- information_schema	9	SHREYA	CEO	200000								
– 🗊 mysql	10	NICK	CLERK	15000								
- performance_schema												
- phpmyadmin		Show all   N	umber of rows: 2	5 ~	Filter rows:	Search t	his table					
- 🕡 test	Query	results opera	ations									

##AFTER EXECUTION :-

phpMyAdmin	🗕 🗊 Server: 127.0.0.1 » 🍵 Database: company » 📑 Table: employee 🌼 🫪													
<u>∆∎</u> 00@¢	Browse	🛃 Structure	SQL 🔍 S	Search	Insert	Export	📕 lr	nport	E F	Privileges	~	More		
ecent Favorites	SELECT * FROM	`employee`												
- New						Profiling [ Ed	it inline ]	[Edit]	[Explai	n SQL][C	Create	PHP	ode][F	tefresh
- company														
	Show all	Number of rows:	25 ~	Filter rows:	Search th	is table								
employee														
Columns	Extra options													
	EMPID EMPNA	ME DESIGNATIO	N BASIC											
BASIC (int, NULL, null:	1 TOM	CLERK	30000											
DESIGNATION (varcha	2 BOB	CLERK	30000											
EMPID (int, NULL, null	3 HELEN	CLERK	30000											
EMPNAME (varchar, N	4 SWEET	Y CLERK	15000											
information_schema	5 AISHU	CLERK	15000											
- mysql	6 JERRY	CLERK	30000											
- performance_schema	7 JOEY	MANAGER	117000											
- phpmyadmin	8 SURYA	ASST.MANAG	ER 50000											
- iest	9 SHREY	A CEO	200000											
	10 NICK	CLERK	15000											