**INTRODUCTION TO PYTHON , OPERATOR, STRING**

**LAB WORK:**

* Python is a high level language
* Interpreted Object Oriented language
* Python is easy to learn and to use.
* Administrative level language (Scripting language)
* It’s a versatile language that runs on many systems

**COMMANDS**

**1.PRINT MESSAGE**

>>> message=" Sir Syed"

>>> print(message)

Sir Syed

**2.SUM OF INT VALUE**

>>> b=7

>>> print(b+2)

9

**3.TAKE INPUT**

>>> message=input("Enter no")

Enter no 4

>>> print(message)

4

**4.TYPE CASTING (Stiring to integer)**

>>> a=int(input("Enter no"))

Enter no8

>>> print(a)

8

**5.TITLE FUNCTION**

>>> a="university"

>>> print(a.title())

University

**6.CONCATINATE**

>>> 'Hello'+'Hello'

'HelloHello'

**7.CONCATINATE STORE VALUE**

>>> a+a

'universityuniversity'

**8.MULTIPLE STRING BY USING ‘ \* ‘**

>>> a\*4

'universityuniversityuniversityuniversity'

**9.INDEX OF STRING**

>>> a="Sir Syed University"

>>> print(a[2])

r

**10.RANGE**

>>> print(a[5:11])

yed Un

**11.RANGE FROM ‘0’ INDEX TO ‘4’**

>>> print(a[:5])

Sir S

**12.RANGE FROM ‘5’ INDEX TO THE END**

>>> print(a[5:])

yed University

**11.RANGE FROM BEGNING TO ENDING WITH GAP ‘2’**

>>> print(a[0:5:2])

SrS

**12.FROM END INDEX (-1) OF THE STRING**

>>> print(a[-2])

t

**EXERCISE:**

**Object 01:**Write a scrip that take user input for a number then add 3 to that number. Then multiplies the result by 2,Subtract 4,again add 3and print result

**Source Code:**

def user\_input():

a=int(input("Enter any number: "))

a=a+3

print("Add by 3 then")

print(a)

a=a\*2

print("Multiply by 2 then ")

print(a)

a=a-4

print("Subtract 4 then ")

print(a)

a=a+3

print("And add 3 ")

print(a)

print("Final Result ")

print(a)

user\_input()

**Output:**

Enter any number: 5

Add by 3 then

8

Multiply by 2 then

16

Subtract 4 then

12

And add 3

15

Final Result

15

**Object 02:**Write a script that takes input as radius and then calculate area of circle (A=^r2)

**Source Code:**

def area():

r=float(input("Enter radius: "))

pi=3.14

area=pi\*r\*r

print("Area of circle is: ",area)

area()

**Output:**

Enter radius: 3

Area of circle is: 28.259999999999998

**Object 03:**

Write a script that asks user for their favourite color .Create the following output

(Assume that blue is chosen color)

blueblueblueblueblueblueblueblueblue

blue blue

blueblueblueblueblueblueblueblueblue

**Source Code:**

def color\_name():

color=input("Enter your favourite colour: ")

alpha=int(input("How many words are use in your favourite colour?: "))

space=' '\*alpha

fcolor=color\*9

print(fcolor+"\n"+color+""+space\*7+""+color+"\n"+fcolor)

color\_name()

**Output:**

Enter your favourite colour: yellow

How many words are use in your favourite colour?: 6

yellowyellowyellowyellowyellowyellowyellowyellowyellow

yellow yellow

yellowyellowyellowyellowyellowyellowyellowyellowyellow

**Object 04:**

Store a person’s name and include some white space characters at the begning & end of the name.Make sure you use each character combination”\t”&”\n” at least once.Print the name are so the whitespace around the name display .Then print name using each of tree stripping function

**Source Code:**

def person\_name():

a =' humaira '

b = a.lstrip()

print("[" + b + "]")

c = a.rstrip()

print("[" + c + "]")

d = a.strip()

print("[" + d + "]")

person\_name()

**Output:**

[humaira ]

[ humaira]

[humaira]