<div align="center">**Assignment-2**</div>

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MaximumMarks	2Marks

<div align="center">**Module3:Python Assignment**</div>

Question1:

List function:

my_list=[4,5,6]

print(my_list)

OUTPUT:

```
In [3]: runfile('C:/Users/saravanan/.spyder-py3/temp.py', wdir='C:/Users/saravanan/.spyder-py3')
[4, 5, 6]
```

ii)remove:(delete the second occurance of integer)

```
main.py
1  my_list = [4, 5, 6]
2  del my_list[1]
3  print(my_list)
4
```

```
[4, 6]
```

OUTPUT:

iii)append:(insert a integer at end of the list)

```python
1  my_list = [4, 5, 6]
2  my_list.append(7)
3  print(my_list)
4
```

OUTPUT:

```
[4, 5, 6, 7]
```

iv)sort:(sort the list)

```python
1  my_list = [4,5,6,3,2,1]
2  my_list.sort
3  print(my_list)
4
```

OUTPUT:

```
[4, 5, 6, 3, 2, 1]
```

v)pop:(pop the last element from the list)

```python
1  my_list = [1,2,3,4,5,6,7,8]
2  my_list.pop(7)
3  print(my_list)
4
5
```

OUTPUT:

```
[1, 2, 3, 4, 5, 6, 7]
```

vi)reverse:(reverse the list)

```
main.py
1  lst = [10, 11, 12, 13, 14, 15]
2  lst.reverse()
3  print(" reverse() ", lst)
4
5
```

OUTPUT:

```
reverse ()   [15, 14, 13, 12, 11, 10]
```

Question2:

Simple Calculator using python:

Code:

```
defadd(x,y):
    returnx+ydefsubtract(x,y):
    returnx-y

defmultiply(x,y):
    returnx*y

defdivide(x,y):
    returnx/y

print("Selectoperation.")
print("1.Add") print("2.Subtract")
```

```python
print("3.Multiply") print("4.Divide")
whileTrue:

    choice=input("Enterchoice(1/2/3/4):") ifchoicein('1','2','3','4'):
        num1=float(input("Enterfirstnumber:"))
        num2=float(input("Entersecondnumber:"))


        ifchoice=='1': print(num1,"+",num2,"=",add(num1,num2))


        elifchoice=='2': print(num1,"-",num2,"=",subtract(num1,num2))


        elifchoice=='3': print(num1,"*",num2,"=",multiply(num1,num2))


        elifchoice=='4': print(num1,"/",num2,"=",divide(num1,num2))
```

OUTPUT:

Question3:

Write a program to concatenate, reverse and slice a string.

String concatenate code:

str_1='string'

```
str_2='implementation'
str_3=str_1+str_2
print(str_3)
```

OUTPUT:

```
string implementation
```

String reverse code:

```
str="string_manipulation"
print("Theoriginalstringis:",str)
reverse_String="" count=len(str)
whilecount>0:
    reverse_String+=str[count-1]#savethevalueofstr[count-1]in
reverseString
    count=count-1
print("Thereversedstringusingawhileloopis:",reverse_String)
```
OUTPUT:

```
The original string  is :   string_manipulation
The reversed string using a while loop is :   noitalupinam_gnirts
```

String slice code:

```
String='string' s1=slice(3)
s2=slice(1,5,2) print(String[s1])
print(String[s2])
```

OUTPUT:

```
str
ti
```

Question-4:

Why python is popular programming language?

Easy to learn, beacuase of simplified syntax with an emphasis on natural language. Python is free to use and is supported by an extremely large ecosystem of libraries and packages

Question-5:

What are the other framework that can be used in python ?

 Flask, streamlit, django, cherryPy

Question-6

Full form of WSDI

Web Services Description Language