Module 3 :Python Assignment

# create a list of prime numbers

list1= [2, 3, 5, 7]

# insert 11 at index 4

list1.insert(4, 11)

#printing the list

print('List:', list1)

#removal of an element

list1.remove(2)

#Insert Integer at the end of the list

list1.append(4)

#sort the list

list1.sort()

#pop the last element from the list

list1.pop()

#reverse the list

list1.reverse()

2)Program to make a simple calculator

# This function adds two numbers

def add(x, y):

return x + y

# This function subtracts two numbers

def subtract(x, y):

return x - y

# This function multiplies two numbers

def multiply(x, y):

return x \* y

# This function divides two numbers

def divide(x, y):

return x / y

print("Select operation.")

print("1.Add")

print("2.Subtract")

print("3.Multiply")

print("4.Divide")

while True:

# take input from the user

choice = input("Enter choice(1/2/3/4): ")

# check if choice is one of the four options

if choice in ('1', '2', '3', '4'):

num1 = float(input("Enter first number: "))

num2 = float(input("Enter second number: "))

if choice == '1':

print(num1, "+", num2, "=", add(num1, num2))

elif choice == '2':

print(num1, "-", num2, "=", subtract(num1, num2))

elif choice == '3':

print(num1, "\*", num2, "=", multiply(num1, num2))

elif choice == '4':

print(num1, "/", num2, "=", divide(num1, num2))

# check if user wants another calculation

# break the while loop if answer is no

next\_calculation = input("Let's do next calculation? (yes/no): ")

if next\_calculation == "no":

break

else:

print("Invalid Input")

3)Concatenation of a string

S1=”string1”

S2=”string2”

S3=s1+s2

Print(S3)

Reverse a string

txt = "Hello World"[::-1]  
print(txt)

Slice the String

txt = "Hello World" **[::-1]**  
print(txt)

4)Why is python a popular programming language?

Python is easy to learn

Python has an active,supportive community

Python is flexible

Python is efficient,fast and reiable

5)What are the other Frameworks that can be used with python?

Bottle

Flask

Django

Web2py

CherryPy

Dash

6)Full form of WSGI?

Web Server Gateway Interface

It is a simple calling convention for web servers to forward requests to web applications or frameworks written in the Python Programming Language.