#### **ASSIGNMENT-3**

# 1. Consider a list at the position and print the list.

## **Program:**

```
Mylist=[1,4,2,3,6,5]
Print(Mylist)
```

Output:[1,4,2,3,6,5]

## Remove first occurence of the list

### **Program:**

```
Mylist=[1,4,2,3,6,5]
Mylist.remove(Mylist[0])
Print(Mylist)
```

Output:[4,2,3,6,5]

# Append integer at the end of the list

## **Program:**

```
Mylist=[1,4,2,3,6,5]
Mylist.append(7)
Print(Mylist)
```

Output:[1,4,2,3,6,5,7]

#### Sort the list

# Program:

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

Mylist.sort()

Print(Mylist)

Output:[1,2,3,4,5,6]

# Pop the last element of the list

## program:

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

Mylist.pop(5)

Print(Mylist)

Output:[1,4,2,3,6]

#### **Reverse the List**

### **Program:**

Mylist=[1,4,2,3,6,5]

Mylist.reverse()

Print(Mylist)

Output:[5,6,3,2,4,1]

2.Write a calculator program in python? Program 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")
  Output:Select operation.
1.Add
2.Subtract
3. Multiply
4.Divide
Enter choice(1/2/3/4): 3
Enter first number: 15
```

**Enter second number: 14** 

#### **15.0 \* 14.0 = 210.0**

Let's do next calculation? (yes/no): no

## 3. Write a program to Concatenate, reverse and slice a string?

```
String Program
      str="Hello"
     print(str)
    Output: "Hello"
Slicing a string
     str="Hello"
      print(str[1:3])
     Output:"ell"
Concatenate a string
      str1="Hello"
      str2="World"
     str=str1+str2
     print(str)
   Output: "Hello World"
Reverse a string
    str="Hello World"[::-1]
    print(str)
   Output:"dlroW olleH"
```

#### 4. Why is python a popular programming language?

Python language is incredibly easy to use and learn for new beginners and newcomers. The python language is one of the most accessible programming languages available because it has simplified syntax and not complicated, which gives more emphasis on natural language.

Due to its ease of learning and usage, python codes can be easily written and executed much faster than other programming languages.

## 5. What are the other frame works that can be used with python?

The other frame works that can be used with python are listed below
1.Django.
2.Web2Py.
3.Flask.
4.Bottle.
5.CherryPy.

#### 6. What is the full form of WSGI?

The full form of WSGI is WEB SERVER GATEWAY INTERFACE.

The Web Server Gateway Interface (WSGI, pronounced whiskey or WIZ-ghee) is a simple calling convention for web servers

to forward requests to web applications or frameworks written in the Python programming language.