ASSIGNMENT 1

NAME: FARHANA SABREEN M

REGISTER NUMBER: 311519104016

COLLEGE NAME: MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

PROJECT TOPIC: CUSTOMER CARE REGISTRY

TEAM ID: PNT2022TMID27825

1)LIST PROGRAM

```
list=[16,12,14,10,20]
list.insert(2,15)
print("The list after inserting 15 at 2nd position is:",list)
list.insert(6,15)
print("The list after inserting 15 at 6th position is:",list)
list.remove(15)
print("The list after removing first occurrence of 15 is:",list)
list.append(200)
print("The list after appending 200 in the list is:",list)
list.sort()
print("The sorted list is:",list)
del list[-1]
print("The list after popping the last element is:",list)
list[::-1]
print("The reversed list is:",list)
```

```
========== RESTART: C:\Users\admin\Desktop\
The list after inserting 15 at 2nd position is: [16, 12, 15, 14, 10, 20]
The list after inserting 15 at 6th position is: [16, 12, 15, 14, 10, 20, 15]
The list after removing first occurrence of 15 is: [16, 12, 14, 10, 20, 15]
The list after appending 200 in the list is: [16, 12, 14, 10, 20, 15, 200]
The sorted list is: [10, 12, 14, 15, 16, 20, 200]
The list after popping the last element is: [10, 12, 14, 15, 16, 20]
The reversed list is: [10, 12, 14, 15, 16, 20]
```

2)CALCULATOR PROGRAM

```
def add(x, y):
    return x + y
def subtract(x, y):
    return x - y
def multiply(x, y):
    return x * y
def divide(x, y):
    return x / y

print("Select operation.")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")

while True:
    choice = input("Enter choice(1/2/3/4): ")
    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))
              next_calculation = input("Let's do next calculation? (yes/no): ")
        if next_calculation == "no":
          break
       else:
        print("Invalid Input")
```

```
========== RESTART: C:/Users/admin/Desktop/IBM-far/Assignment 1 cal.py ==========
Select operation.
1.Add
2.Subtract
3.Multiply
4.Divide
Enter choice(1/2/3/4): 1
Enter first number: 5
Enter second number: 6
5.0 + 6.0 = 11.0
Let's do next calculation? (yes/no): yes
Enter choice(1/2/3/4): 2
Enter first number: 7
Enter second number: 5
7.0 - 5.0 = 2.0
Let's do next calculation? (yes/no): yes
Enter choice(1/2/3/4): 3
Enter first number: 3
Enter second number: 4
3.0 * 4.0 = 12.0
Let's do next calculation? (yes/no): yes
Enter choice(1/2/3/4): 4
Enter first number: 12
Enter second number: 3
12.0 / 3.0 = 4.0
Let's do next calculation? (yes/no): no
```

3) WRITE A PROGRAM TO CONCATENATE, REVERSE AND SLICE A STRING

```
str1=(input("Enter the string1 "))
str2=(input("Enter the string2 "))
str=str1+str2
print("The concatenation of two strings is:",str)

print("The reverse of the string ",str," is:",str[::-1])
print("The slice of the string ",str, "is:",str[2:5])
```

```
========== RESTART: C:/Users/admin/Deskto
Enter the string1 school
Enter the string2 girl
The concatenation of two strings is: schoolgirl
The reverse of the string  schoolgirl  is: lrigloohcs
The slice of the string  schoolgirl is: hoo
```

4) WHY IS PYTHON A POPULAR LANGUAGE?

- It is simpler to read and understand because of its straightforward grammar, which mimics natural English. Project development and improvement are speed up as a result.
- It is adaptable. Python can be used for a wide range of projects, including machine learning and web development.
- It's user-friendly for beginners, making it popular among beginning programmers.
- Being open source, it can be used and distributed without charge, even for profit.
- Python has a sizable and expanding library and module repository, which are collections of code written by outside developers to enhance Python's functionality.
- A sizable and vibrant community supports Python, adds to its collection of modules and libraries, and serves as a valuable resource for other programmers.
- Because of the large support network, finding a solution to a coding problem is usually not too difficult because it is likely that someone else has already come into the same

issue.

5)WHAT ARE THE OTHER FRAMWORKS THAT CAN BE USED WITH PYTHON?

Django
Pyramid
TurboGears
Cherrypy
Flask
Sanic
web2py
bottle

6)FULL FORM OF WSGI

Web Server Gateway Interface