Assignment:1

Calculator program using python.

```python
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':
```

```python
            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")
```

OUTPUT:

Select operation.

1.Add

2.Subtract

3.Multiply

4.Divide

Enter choice(1/2/3/4): 1

Enter first number: 10

Enter second number: 10

10.0 + 10.0 = 20.0

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

>

2. string concatenation,slicing, reversing using Python programming

```python
str1="Customer care registry"
str2="Assignment 2"
print ("String 1:",str1)
print ("String 2:",str2)
str=str1+str2
print("Concatenated two different strings:",str)
def reverse(str):
    str = str[::-1]
    return str
s = "Customer care registry"
print ("The original string is : ",s)
print ("The reversed string using extended slice operator is :
",reverse(s))
print("Sliced string is:",str2[:4])
```

OUTPUT:

String 1: Customer care registry

String 2: Assignment 2

Concatenated two different strings: Customer care registry Assignment 2

The original string is : Customer care registry

The reversed string using extended slice operator is : yrtsiger erac remotsuc

Sliced string is: cust

3. Why is python a popular programming language?

 *Python is easy to learn.

*It uses a simplified syntax with an emphasis on natural language

*It is an easier learning curve for beginners to learn programming.

*It is free to use and an open source source.

*It is supported by an extremely large ecosystem of libraries and

packages.

*we write less code and those codes solve the complex problems.

*It is highly portable.

4. What are the other frameworks that can be used with python?

 Django.

Pyramid.

TurboGears.

Web2py.

CherryPy.

Flask.

Sani

5. Expansion of WSGI

Web Server Gateway Interface