Assignment -2

Python Programming

Assignment Date	24 September 2022
Student Name	ARUN KUMAAR S
Student Roll Number	1919102017
Maximum Marks	2 Marks

Question-1:

1)Consider a list (list = []). You can perform the following commands:
insert i e: Insert integer at position .
print: Print the list.
remove e: Delete the first occurrence of integer .
append e: Insert integer at the end of the list.
sort: Sort the list.
pop: Pop the last element from the list.
reverse: Reverse the list.
Initialize your list and read in the value of followed by lines of commands where each command will be of the types listed above.
Iterate through each command in order and perform the corresponding operation on your list.

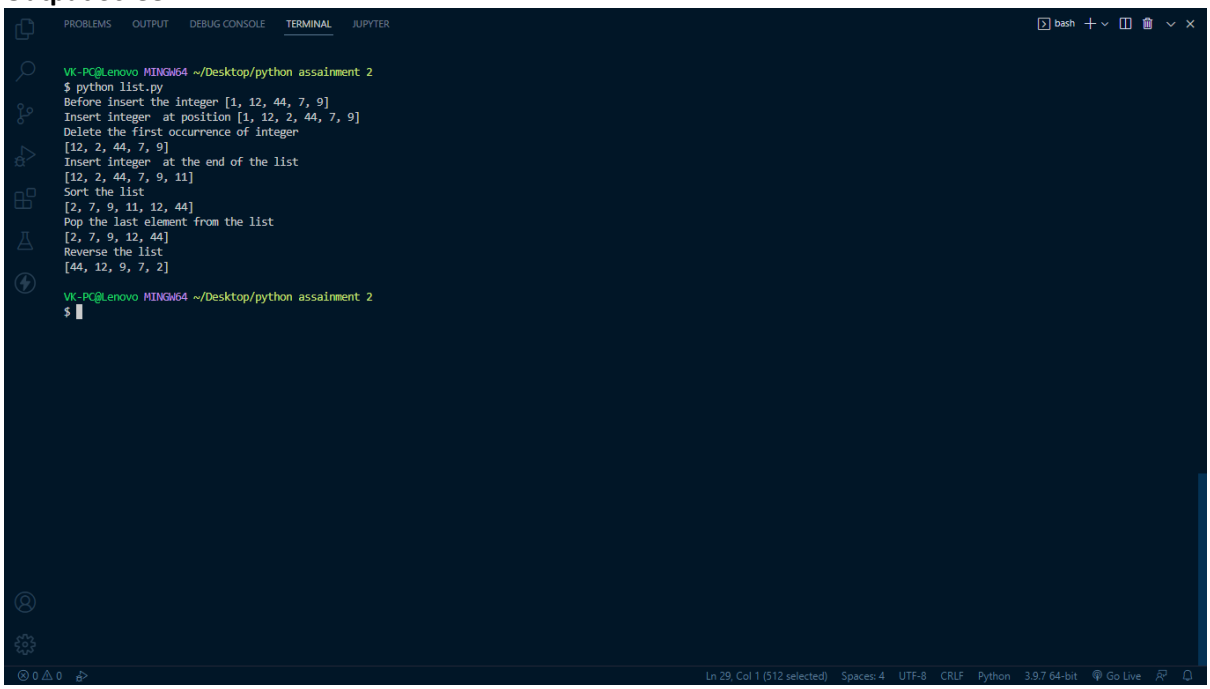
Program:

List.py

```
list = [1, 12, 44, 7, 9]

# Insert integer  at position
print("Before insert the integer", list)

list.insert(2, 2)

print("Insert integer  at position", list)

print('Delete the first occurrence of integer')
list.remove(1)
print(list)

print("Insert integer  at the end of the list")
list.append(11)
print(list)

print("Sort the list")
list.sort()
print(list)

print("Pop the last element from the list")
list.pop(3)
print(list)
```

```
print('Reverse the list')
list.reverse()
print(list)
```

Output Screen:



Question-2:

1 . Write a Calculator program in Python?

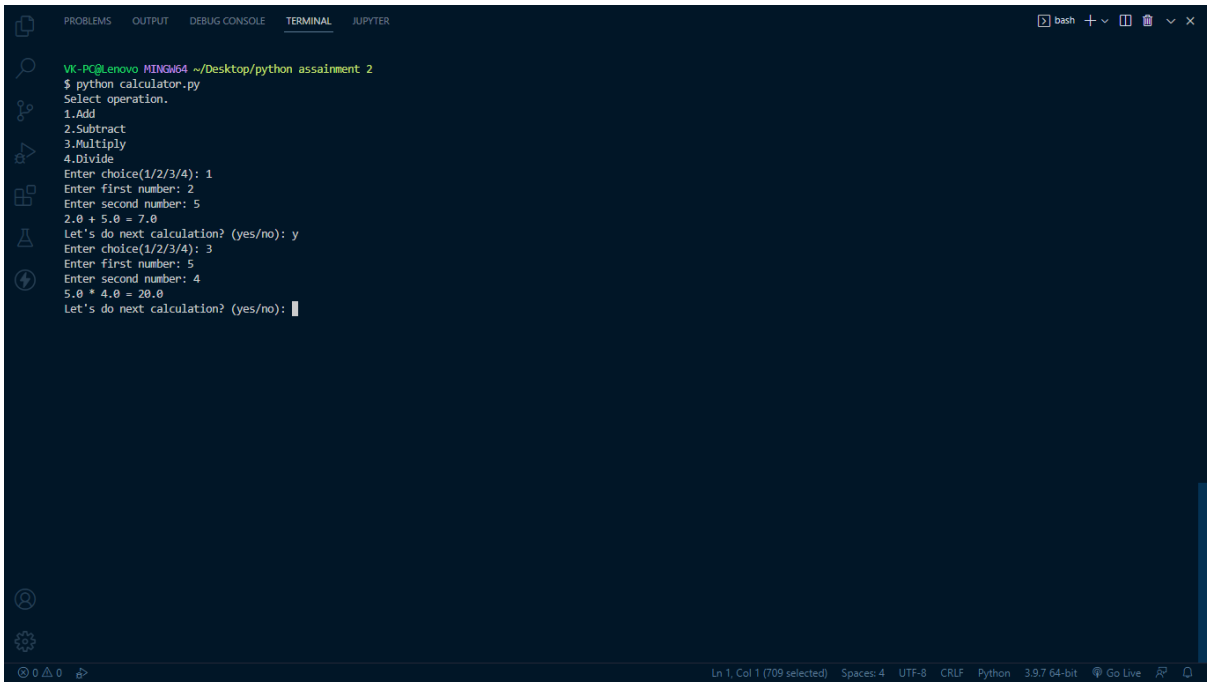
Claculator.py

```
# 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 Screen:



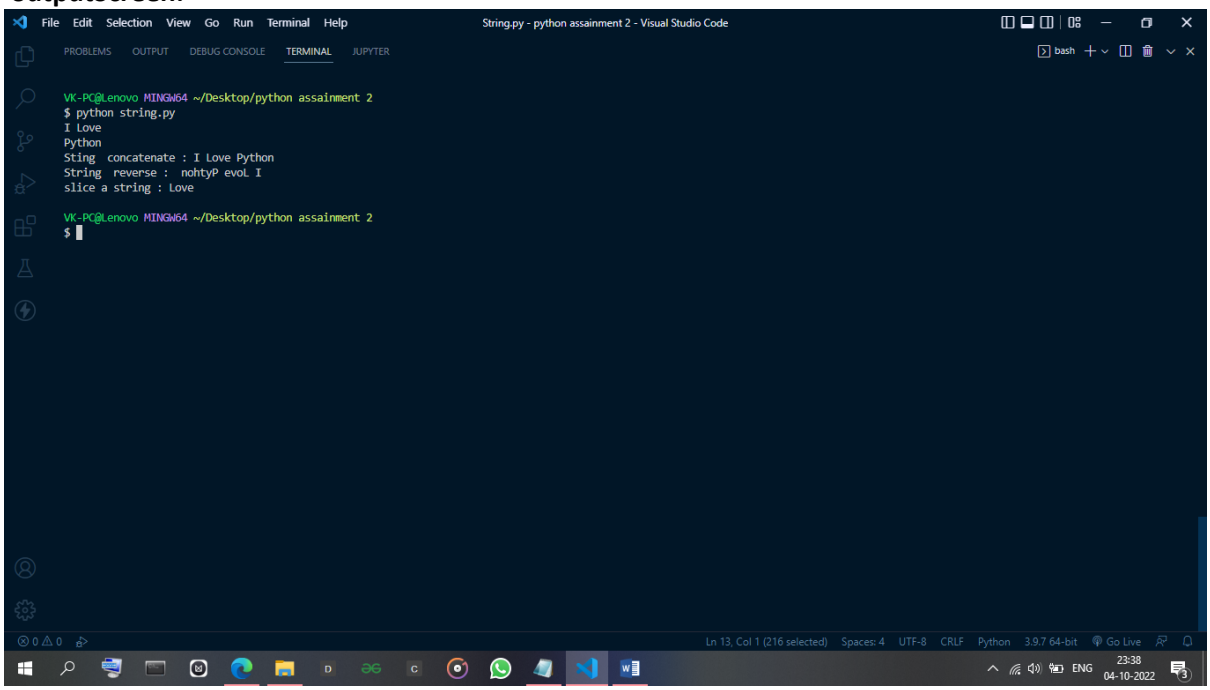
2. Write a program to concatenate, reverse and slice a string?

String.py

```
var1 = "I Love "
var2 = "Python"
print(var1)
print(var2)
var3 = var1 + var2
print("Sting  concatenate :", var3)
```

```
var4 = var3[::-1]
print("String  reverse : ", var4)

print("slice a string :", var3[2:7])
```

outputScreen:



3. Why is Python a popular programming language?

it has simplified syntax and not complicated, its ease of learning and usage, python codes can be easily written and executed much faster than other programming languages.

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

- Django.
- Flask

5. Full form of WSGI?

Web Server Gateway Interface