Assignment 1

1) In the below code, User able to enter the Python word, then can delete 2 characters using the delete string method in the code, After deletion of 2 characters in the string. Performs the reverse string operation with condition given in code as per the instruction. In addition, performing the arithmetic operations like addition, subtraction, multiplication and division considering two variables a1 and a2. Performs arithmetic actions by taking values from user.

```
# Getting input string "Python" as a list from the console
string = list(input("Enter the string 'Python': "))

if len(string) >=2:
   del string[:2]

# Reverse the result string
resultstring = string[::-1]

# Print the reversed string
print("The Reversed String:")
print("".join(resultstring))

# Take two numbers from the user
a1 = float(input("Enter the 1st no.: "))
a2 = float(input("Enter the 2nd no.: "))

# Performing  4 arithmetic operations
addition = a1 + a2
subtraction = a1 - a2
multiplication = a1 * a2
division = a1 / a2

print("arithmetic operations")
print("addition:a1+a2=",a1+a2)
print("multiplication:a1*a2=",a1*a2)
print("substraction:a1-a2=",a1-a2)
print("Division:a1/a2=",a1/a2)
```

Output

```
Enter the string 'Python': python
The Reversed String:
noht
Enter the 1st no.: 4
Enter the 2nd no.: 5
arithmetic operations
addition:a1+a2= 9.0
multiplication:a1*a2= 20.0
substraction:a1-a2= -1.0
Division:a1/a2= 0.8
```

2) In the below code, I have implemented the given condition using replace function. Where it replaces each occurrence of Python word into Pythons.

```
[ ]  # Accept a sentence from the user
     word1 = input("Enter a sentence: ")

     # Replace each occurrence of 'python' with 'pythons'
     resultant_word = word1.replace('python', 'pythons')

     # Print the result
     print("result_word:")
     print(resultant_word)
```

Output

```
Enter a sentence: I like python
result_word:
I like pythons
```

3) In the below code, I have implemented the given instruction as it prints the class grade based on the given score using if elif condition. As we see in the given code, if we place input class score as “90”, it prints grade as “A” as per the condition

```
[ ]  # Get the class score from the user
     class_score = float(input("Provide the class score: "))

     # Determine the letter grade based on the grading scheme
     if class_score >= 90:
         grade = 'A'
     elif class_score >= 80:
         grade = 'B'
     elif class_score >= 70:
         grade = 'C'
     elif class_score >= 60:
         grade = 'D'
     else:
         grade = 'F'

     # Print the letter grade
     print(f"The grade for the class score {class_score} is: {grade}")
```

Output

```
Provide the class score: 90
The grade for the class score 90.0 is: A
```

GitHub Link:

https://github.com/Muralikrishna9550/Assignment1.git

Video Link:

https://drive.google.com/file/d/11feOKgAOQaLsJHcnhNVSzNwASNfcfNv-/view?usp=sharing