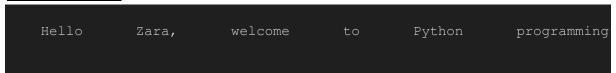#ASSIGNMENT 1:

1. String Concatenation:

Write a Python program that takes two strings i.e string 1 "Hello ", string 2 get name as input from the user and concatenates them together. Display the concatenated string as the output.

Sample Output:

```
Enter your Name: Zara
Hello                                                    Zara
```

Now concatenate string 3 ", welcome to Python programming" to the existing string and display the output string.

Sample Output:

```
Hello      Zara,      welcome      to      Python      programming
```

strg1="Hello"

strg2=input("Enter your name:")

strg3=", welcome to python programming"

#print(strg1,strg2,strg3)   # method 1(cancatenations)

#print(strg1 + " " + strg2+ strg3)   # method 2

print('{} {}{}'.format(strg1,strg2,strg3))   # method 3

Output:

Enter your name:Zara
Hello Zara, welcome to python programming

2. String Slicing and Indexing:

Write a Python program using the above concatenated string as input and performs the following tasks:
a.   Print the first character of the string.
b.   Print the last character of the string.
c.   Print the first 5 characters of the string.
d.   Print the last 11 characters of the string.
e.   Print the string in reverse.
f.   Use slicing and print the word "Python" from the existing string.

strg4="Hello zara, welcome to python programming"

a)print(strg4[0])

b)print(strg4[40])

c)#print(strg4[0:5])

print(strg4[:5])

d)#print(strg4[30:41])

print(strg4[30:])

e)print(strg4[::-1])

print(strg4[23:29])

print(strg4[40:29:-1])

f)Output:gnimmargorp

Output:

```
H
g
Hello
programming
gnimmargorp nohtyp ot emoclew ,araz olleH
python
```

3. String Methods:

Write a Python program that takes a string, strM = "Python beginner tutorial" and perform the following tasks:
a.   Convert the sentence to uppercase.
b.   Convert the sentence to lowercase.
c.   Use Capitalize and return the sentence to the original input form.
d.   Count the total number of occurrences of character 't' in the string.
Replace all occurrences of "Python" with "Machine Learning" in the input string strM = "Python beginner tutorial"

strM = "Python beginner tutorial"

print(strM.upper())

print(strM.lower())

print(strM.capitalize())

```
print(strM.count("t"))
```

```
print(strM.replace("Python", "Machine Learning"))
```

```
PYTHON BEGINNER TUTORIAL
python beginner tutorial
Python beginner tutorial
3
Machine Learning beginner tutorial
```

Tuples (Creation, Modification and Access) :

Create 1st tuple with values -> (10, 20, 30), 2nd tuple with values -> (40, 50, 60):
- a. Concatenate the two tuples and store it in "t_combine"
- b. Repeat the elements of "t_combine" 3 times
- c. Access the 3rd element from "t_combine"
- d. Access the first three elements from "t_combine"
- e. Access the last three elements from "t_combine"

```
a=(10,20,30)
```

```
b=(40,50,60)
```

```
t=(a+b)
```

```
print(t)
```

```
print(t*3)
```

```
print(t[2])
```

```
print(t[0:3])
```

```
print(t[3:])
```

Output:

```
(10, 20, 30, 40, 50, 60)
(10, 20, 30, 40, 50, 60, 10, 20, 30, 40, 50, 60, 10, 20, 30, 40, 50,
60)
30
(10, 20, 30)
(40, 50, 60)
```