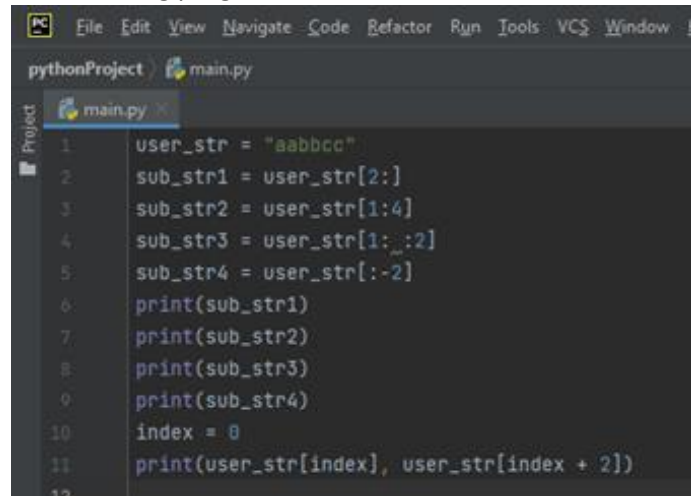


LAB 7: STRING

Part A: String

Slicing Check

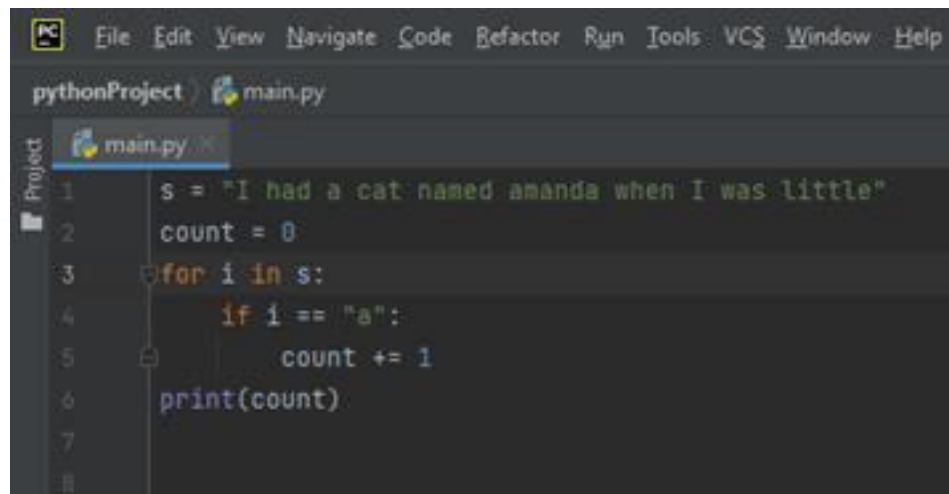
1. Find the output for the following program.



```
pythonProject main.py
1 user_str = "aabbcc"
2 sub_str1 = user_str[2:]
3 sub_str2 = user_str[1:4]
4 sub_str3 = user_str[1::2]
5 sub_str4 = user_str[:-2]
6 print(sub_str1)
7 print(sub_str2)
8 print(sub_str3)
9 print(sub_str4)
10 index = 0
11 print(user_str[index], user_str[index + 2])
12
```

Comparison Check

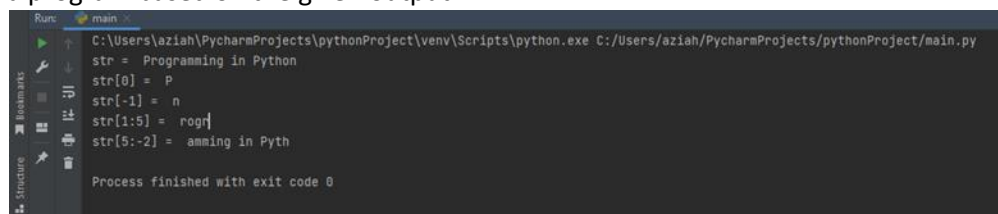
2. In the following program, replace the **for** with a **while** loop.



```
pythonProject main.py
1 s = "I had a cat named amanda when I was little"
2 count = 0
3 for i in s:
4     if i == "a":
5         count += 1
6 print(count)
```

Accessing the String

3. Write a program based on the given output:



```
Run main
C:\Users\aziah\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/aziah/PycharmProjects/pythonProject/main.py
str = Programming in Python
str[0] = P
str[-1] = n
str[1:5] = rogra
str[5:-2] = amming in Pyth
Process finished with exit code 0
```

Concatenation of Two or More Strings

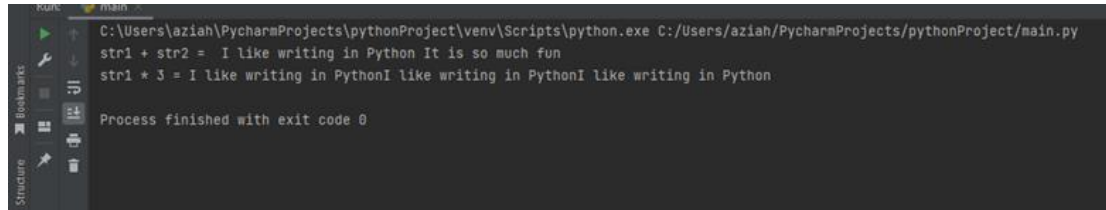
4. We know that writing the following code:

```
print("I like writing in Python")  
print("It is so much fun")
```

will produce the following result

```
I like writing in Python  
It is so much fun
```

when executed. However, can you manage to produce the given output using the strings? Write a program to generate the following output:



```
C:\Users\aziah\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\aziah\PycharmProjects\pythonProject/main.py  
str1 + str2 = I like writing in Python It is so much fun  
str1 * 3 = I like writing in PythonI like writing in PythonI like writing in Python  
  
Process finished with exit code 0
```

Part C: Test yourself!

- Write a Python program to create a new string made of an input of first, middle, and last character.
- Write a Python program to
 - Display 'I am a good boy/girl but my parents always scold me'.
 - Count the length of this string.
 - Slice this string up to 'I am a good boy/girl'
 - Find the word 'parents' and replace with 'lecturers'
 - Concatenate 'because I just pretend to be good, HAHAHA'
 - Display 'good' in upper case
 - Display "HAHAHA" in lower case
- Write a Python program to split a given string on hash symbol and display each substring.
 - Given string = "Magic#Mirror#on#the#wall,#who#is#the#fairest#one#of#all?"
- Write a Python program to generate below output:
Given string = "string"



```
C:\Users\aziah\PycharmProjects\pythonProject1\venv\Scripts\python.exe "C:\Users\aziah\PycharmProjects\pythonProject1\Week 1.py"  
s  
t  
r  
i  
n  
g  
  
Process finished with exit code 0
```