

# ASSIGNMENT-1

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1. For a given input string “Python is a case sensitive language”. Write python code for the following:
  - a. Find the length of the input string.
  - b. Reverse the order of the string in one line code.
  - c. Using Slice function store “a case sensitive” in new string.
  - d. Replace “a case sensitive” with “object oriented”.
  - e. Find index of substring “a” in the given input string.
  - f. Remove the white spaces from the given input string.

## OUTPUT:

IDLE Shell 3.10.4

File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/HP/Desktop/question1.py =====

35

egaugnal evitisnes esac a si nohtyP

a case sensitive

Python is object oriented language

10

Pythonisacasesensitivelanguage

>>>

**2. Store your name, SID, department name and CGPA into different variables. With the help of String formatting print the following output:**

**Hey, ABC Here!**

**My SID is 2110XXXX**

**I am from XYZ department and my CGPA is 9.9**

**OUTPUT:**

IDLE Shell 3.10.4

File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on  
Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/HP/Desktop/questipn2.py =====

Hey, Simran Here!

My SID is 21102062

I am from CIVIL department and my CGPA is 9.9

>>>

**3. For a=56 and b=10 with the help of bitwise operators calculate the following:**

**a.  $a \& b$**

**b.  $a | b$**

**c.  $a \wedge b$**

**d. Left shift both a and b with 2 bits.**

**e. Right shift a with 2 bits and b with 4 bits.**

**OUTPUT:**

IDLE Shell 3.10.4

File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/HP/question3.py =====

50

58

50

224 40

14 0

>>>

**4. Write a python program to check if the word “name” is present in the string entered by the user (Print : “Yes” or “No”).**

### OUTPUT:

```
IDLE Shell 3.10.4
File Edit Shell Debug Options Window Help
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)]
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/HP/question4.py =====
Enter any string: My name is Simran Sehgal
Yes
>>>
===== RESTART: C:/Users/HP/question4.py =====
Enter any string: python is a high-level language.
No
>>>
```

**5. For any three lengths, there is a simple test to see if it is possible to form a triangle. If any of the three lengths is greater than the sum of the other two, then you cannot form a triangle. Otherwise, Enter three sides of a triangle, converts them to integers, and to check whether the given input lengths can form a triangle or not (Print : “Yes” or “No”).**

## **OUTPUT:**

IDLE Shell 3.10.4

File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/HPE

Enter first side of a triangle: 7  
Enter second side of a triangle: 8  
Enter third side of a triangle: 16  
Yes

>>>

===== RESTART: C:/Users/HPE

Enter first side of a triangle: 5  
Enter second side of a triangle: 7  
Enter third side of a triangle: 6  
No

>>>

**6. Given two numbers 'a' and b'. Write a program to count number of bits needed to be flipped to convert 'a' to 'b'.**

**OUTPUT:**



```
IDLE Shell 3.10.4
File Edit Shell Debug Options Window Help
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/HP/question6.py =====
Enter any number: 21
Enter other number : 8
4
>>>
```