



#question 1

```
string = 'Python is a case sensitive language'

#a length of string
print("(a)length of the string :",len(string))

#b reversing the string
print("(b)",string[::-1])

#c slicing
print("(c)",string[10:26])

#d replace
new_string = string[:10]+' an object oriented '+ string[26:]
print("(d)",new_string)

#e index of a
print("(e)index of a :",string.find('a'))

#f removing spaces
print("(f)",string.replace(' ',''))
```

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(a)length of the string : 35
(b) egaugnal evitisnes esac a si nohtyP
(c) a case sensitive
(d) Python is an object oriented language
(e)index of a : 10
(f) Pythonisacasesensitivelanguage

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#Question 2

SID=21107054
name=" Ayush Srishti"
department="Mechanical"
CGPA= 9.0

print("Hey," + name + " Here!")
print("My SID is %d" %SID)
print("I am from " + department + " department and my CGPA is ", CGPA)

Hey, Ayush Srishti Here!
My SID is 21107054
I am from Mechanical department and my CGPA is 9.0

0s

[29] #Question 3

a = 56
b = 10

(a)bitwise AND

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[21] In [21]:

My SID is 21107054

I am from Mechanical department and my CGPA is 9.0

#Question 3

a = 56

b = 10

(a) bitwise AND

print("(a)a&b=",a&b)

(b) bitwise OR

print("(b)a|b=",a|b)

(c) bitwise XOR

print("(c)a^b",a^b)

(d) Left Shift

print("(d)a << 2 : ", a << 2, " and b << 2: ", b << 2)

(e) Right Shift

print("(e)a >> 2 :", a >> 2," and b >> 4:", b>> 4)

(a)a&b= 8

(b)a|b= 58

(c)a^b 50

(d)a << 2 : 224 and b << 2: 40

(e)a >> 2 : 14 and b >> 4: 0

[35] In [35]:

Question 4

[→]

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Question 5

user input

side_1 = int(input("enter first side of triangle :"))

side_2 = int(input("enter second side of triangle :"))

side_3 = int(input("enter third side of triangle :"))

a = side_1 + side_2

b = side_2 + side_3

c = side_3 + side_1

x = (side_1 < b)

y = (side_2 < c)

z = (side_3 < a)

answer = str(x & y & z)

answer = answer.replace("True", "Yes")

answer = answer.replace("False", "No")

print(answer)

enter first side of triangle :56

enter second side of triangle :65

enter third side of triangle :89

Yes

[44] #question 6

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5s enter third side of triangle :89
Yes

#question 6

user input
a = int(input("Enter 1st no.:"))
b = int(input("Enter 2nd no.:"))

using binary XOR and convert to string 2
print((str(bin(a ^ b))).count('1'))

Enter 1st no.:55
Enter 2nd no.:23
1