

Q1.py - C:\Users\HP\Desktop\Q1.py (3.10.4)

File Edit Format Run Options Window Help

```
# QUESTION 1

s1='Python is a case sensitive language'

print(len(s1))      #a

print(s1[-1::-1])    #b

s2=s1[10:26]         #c
print(s2)

s3=s1.replace('a case sensitive','object oriented')      #d
print(s3)

print(s1.index('a'))      #e

s4=s1.strip().split()      #f
s4=''.join(s4)
print(s4)
```

Ln: 3 Col: 16

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\Q1.py =====
=====
35
egaugnal evitisnes esac a si nohtyP
a case sensitive
Python is object oriented language
10
Pythonisacasesensitivelanguage
>>> |
```

Ln: 11 Col: 0

Q2.py - C:\Users\HP\Desktop\Q2.py (3.10.4)

File Edit Format Run Options Window Help

```
# QUESTION 2

name='Hemang Bansal'
dep_name='Mechanical'
sid=21107079
cgpa=9.4
print('Hey, ',name,'Here!')
print("My SID is",sid)
print('I am from',dep_name,'department and my CGPA is',cgpa)
```

Ln: 10 Col: 0

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\Q2.py =====
Hey, Hemang Bansal Here!
My SID is 21107079
I am from Mechanical department and my CGPA is 9.4
>>> |
```

Ln: 8 Col: 0

Q3.py - C:\Users\HP\Desktop\Q3.py (3.10.4)

File Edit Format Run Options Window Help

```
# QUESTION 3

a=56
b=10
print(a&b)
print(a|b)
print(a^b)
print(a<<2,b<<2)
print(a>>2,b>>4)
```

Ln: 5 Col: 10

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\Q3.py =====
>>>
8
58
50
224 40
14 0
>>>
```

Ln: 10 Col: 0

Q4.py - C:\Users\HP\Desktop\Q4.py (3.10.4)

File Edit Format Run Options Window Help

```
# QUESTION 4

string=input()
if 'name' in string:
    print("Yes")
else:
    print('No')
```

Ln: 8 Col: 0

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\Q4.py =====
=====
my name is hemang bansal
Yes
>>>
===== RESTART: C:\Users\HP\Desktop\Q4.py =====
my sid is 21107079
No
>>>
```

Ln: 11 Col: 0

Q5.py - C:\Users\HP\Desktop\Q5.py (3.10.4)

File Edit Format Run Options Window Help

```
# QUESTION 5

side1=round(float(input('Enter first side : ')))
side2=round(float(input('Enter second side : ')))
side3=round(float(input('Enter third side : ')))
a=side1+side2>side3
b=side2+side3>side1
c=side3+side1>side2
match a,b,c:
    case True,True,True:                # Checking for valid triangle case
        print('Yes')
    case (False,True|False,True|False)|(True,False,True|False)|(True,True,False):    # Checking for invalid triangle case
        print('No')
```

Ln: 14 Col: 0

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\Q5.py =====
Enter first side : 3
Enter second side : 4
Enter third side : 5
Yes

>>>
===== RESTART: C:\Users\HP\Desktop\Q5.py =====
Enter first side : 5
Enter second side : 7
Enter third side : 13
No

>>>
```

Ln: 15 Col: 0

Q6.py - C:\Users\HP\Desktop\Q6.py (3.10.4)

File Edit Format Run Options Window Help

```
# QUESTION 6

a=int(input())
b=int(input())
c=bin(a^b)
print(c.count('1'))
```

Ln: 7 Col: 0

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\Q6.py =====
=====
10
20
4
>>>
===== RESTART: C:\Users\HP\Desktop\Q6.py =====
20
50
3
>>>
===== RESTART: C:\Users\HP\Desktop\Q6.py =====
5
9
2
>>>
```

Ln: 18 Col: 0