Question 1.py > ...

```python
from calendar import c


str1 = ("Python is a case sensitive language")
print(len(str1))
print(str1[::-1])
print(str1[10::])
print(str1.replace("case sensitive," , "object oriented"))
print(str1.find('a'))
print(str1.replace(" ",""))
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

Python Debug Console + ∨ ⊞ 🗑 ∧ ✕

```
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PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms
-python.python-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '52844' '--' 'c:\Users\admin\python assignments\Question 1.py'
35
egaugnal evitisnes esac a si nohtyP
a case sensitive language
Python is a case sensitive language
10
Pythonisacasesensitivelanguage
PS C:\Users\admin\python assignments>
```

Question 2.py > ...

```python
Name = input("enter your name")
S_I_D = int(input("enter your sid"))
Department = input("enter your department")
CGPA = float(input("enter your cgpa"))
print("Hey %s, "%Name, "Here!")
print("My SID  is %d" %S_I_D)
print("I am from %s"%Department,"and my CGPA is %f"%CGPA)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   Python Debug Console + ∨ ⊞ 🗑 ∧ ✕

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PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms
-python.python-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '52865' '--' 'c:\Users\admin\python assignments\Question 2.py'
enter your name Yuvraj Chaudhary
enter your sid 21107046
enter your department Mechanical
enter your cgpa 10
Hey Yuvraj Chaudhary, Here!
My SID is 21107046
I am from Mechanical and my CGPA is 10.000000
PS C:\Users\admin\python assignments>

Question 3.py > ...

```python
1    a=56
2    b=10
3    print(a&b)
4    print(a|b)
5    print(a^b)
6    print("left sift a with 2 bits:",a<<2)
7    print("left shift b with 2 bits:",b<<2)
8    print("right shift a with 2 bits:",a>>2)
9    print("right shift b with 4 bits:",b>>4)
10
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   Python Debug Console + ∨ ⊞ 🗑 ∧ ✕

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-python.python-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '52880' '--' 'c:\Users\admin\python assignments\Question 3.py'
8
58
50
left sift a with 2 bits: 224
left shift b with 2 bits: 40
right shift a with 2 bits: 14
right shift b with 4 bits: 0
PS C:\Users\admin\python assignments>

Question 4.py > ...

```python
str_2=input("enter a string")
if "name" in str_2:
    print("Yes")
else:
    print("No")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   ✶ Python Debug Console + ∨ ⊞ 🗑 ∧ ✕

Windows PowerShell
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PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms
-python.python-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '52891' '--' 'c:\Users\admin\python assignments\Question 4.py'
enter a string hello everyone
No
PS C:\Users\admin\python assignments> |

Question 5.py > ...

```python
x=int(input("First side: "))
y=int(input("Second side: "))
z=int(input("Third side: "))
i=str(bool(x + y > z and y + z > x and x + z > y)).replace(str(True), "Yes").replace(str(False), "No")
print(i)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   Python Debug Console + ∨ ⊓ 🗑 ∧ ✕

```
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PS C:\Users\admin\python assignments>  & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms
-python.python-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '52939' '--' 'c:\Users\admin\python assignments\Question 5.py'
First side: 34
Second side: 45
Third side: 67
Yes
PS C:\Users\admin\python assignments>
```

Question 6.py > ...

```python
number_1 = int(input("Enter 1st number "))
number_2 = int(input("Enter 2nd number "))
ex_or = number_1 ^ number_2
bin_exor = bin(ex_or)
check_string = str(bin_exor)
a = check_string.count("1")
print(a)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   Python Debug Console + ∨ ⊡ 🗑 ∧ ✕

```
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PS C:\Users\admin\python assignments>  & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms
-python.python-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '53111' '--' 'c:\Users\admin\python assignments\Question 6.py'
Enter 1st number 45
Enter 2nd number 40
2
PS C:\Users\admin\python assignments> 
```