```
Answer_1.py - C:\Users\hp\Desktop\Answer_1.py (3.10.4)
File Edit Format Run Options Window Help
'''For taking length of string
First take input of string'''
string = "Python is a case sensitive language"
#len() is used for taking length of given string.
print ("A) Length of the given string: ", len(string), "\n")
# This is for giving output string in reverse order.
print("B) Reverse of the given string is :")
print(string[::-1], "\n")
#slicing the string.
new string = string[10:26]
print("C) New sliced string is: ","\n", new string,"\n")
#replace a string using replace fun. in string slicing,
Replaced string= string.replace('a case sensitive', 'object oriented')
print("D) String after replacing: ", "\n" , Replaced string , "\n")
#Finding the index of "a" in the input string.
print("E) Index of substring 'a' is:", string.find("a"),"\n")
#Printing the string without white spaces using replace in string.
print("F) Sting without white spaces: ", "\n", string.replace(" ", ""))
```

```
Answer_2.py - C:\Users\hp\Desktop\Answer_2.py (3.10.4)
File Edit Format Run Options Window Help
#Taking input from User.
name = str(input("Name of Applicant: "))
'''I have used different data types here
        like int, str andfloat'''
SID = int(input("Enter your college ID:"))
dep name = str(input("Enter your department name: "))
cgpa = float(input("Enter your CGPA: "))
'''Here string is formed using multiline comment command which
gives us the string in the same body formate as we write inside this. '''
string= '''Hey, <name> Here!
My SID is <SID>
I am from <dep name> department and my CGPA is <cgpa>'''
#As the string is replaced multiple times...we use this slicing in the given way
print(string.replace("<name>", name).replace("<SID>", str(SID)).replace("<dep na
```

```
Answer_3 (1).py - C:\Users\hp\Desktop\Answer_3 (1).py (3.10.4)
  File Edit Format Run Options Window Help
  #Use of Bitwise Operators.
  a = 56
  b = 10
ecy
  #Use of Bitwise AND(&) operator.
  print("A. a & b =", a & b)
  #Use of Bitwise OR(|) operator.
  print("B. a | b =", a | b)
cal
  #Use of Bitwise XOR(^) operator.
  print("C. a ^ b =", a ^ b)
 #Use of shift(left) operator.
  print ("D. a << 2 = ", a << 2)
  #Use of shift (both) operator.
  print("E. a >> 2 = ", a >> 2," and ", "b >> 4 = ", b >> 4)
```

```
Answer_4.py - C:\Users\hp\Desktop\Answer_4.py (3.10.4)
                                                                          X
File Edit Format Run Options Window Help
Taking input
string= str(input("Enter any string: "))
Using string slicing to find a word in the string
checked = string.find("name")
Making a loop for printing yes and no for the required outputs.
Here '==' is comparison operator
f checked == -1: # '-1' is the value as an output of find function indicati
   print("No")
lse:
   print("Yes")
```

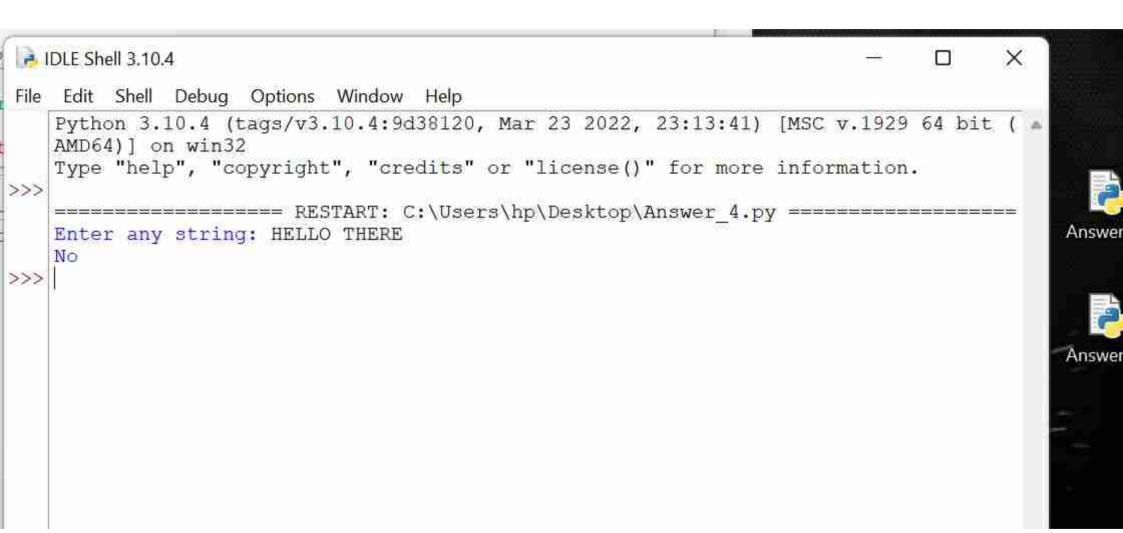
```
Answer_5.py - C:\Users\hp\Desktop\Answer_5.py (3.10.4)
File Edit Format Run Options Window Help
# Taking inputs of the sides of the triangle.
nl = int(input("Enter First length : "))
n2 = int(input("Enter Second length: "))
n3 = int(input("Enter Third length : "))
# Checking the condition for triangle to be formed.
F1 = n1 > n2 + n3
F2 = n2 > n1 + n3
F3 = n3 > n1 + n2
# Here we check wheather the all conditions are satisfied or not.
Output = str(F1 or F2 or F3)
print("The triangle can be formed?")
# Using string slicing.
print (Output.replace ("True", "No!").replace ("False", "Yes!"))
```

Edit Shell Debug Options Window Help

- Python 3.10.4 (tags/v3.10.4:9d38120, Mar 2 AMD64)] on win32
- Type "help", "copyright", "credits" or "li
- ----- RESTART: C:\Users\hp\D
- A) Length of the given string: 35
- B) Reverse of the given string is : egaugnal evitisnes esac a si nohtyP
- C) New sliced string is: a case sensitive
- D) String after replacing: Python is object oriented language
- E) Index of substring 'a' is: 10
- F) Sting without white spaces: Pythonisacasesensitivelanguage

```
IDLE Shell 3.10.4
ile Edit Shell Debug Options Window Help
  Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC
  AMD64)] on win32
  Type "help", "copyright", "credits" or "license()" for more infor
  ================= RESTART: C:\Users\hp\Desktop\Answer 2.py ===
  Name of Applicant: Dheeraj Sharma
  Enter your college ID:21107025
  Enter your department name: Mechanical
  Enter your CGPA: 9.7
  Hey, Dheeraj Sharma Here!
  My SID is 21107025
  I am from Mechanical department and my CGPA is 9.7
```

```
Answer 3 (1),py - C:\Users\hp\Desktop\Answer 3 (1),py (3.10.4)
File | Fi
                                                                                                                                                                                                                                                                                                                                                                                                                                  X
#Us
                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)1 on win32
                                 Type "help", "copyright", "credits" or "license()" for more information.
#Us
pri>>>
                                 ========= RESTART: C:\Users\hp\Desktop\Answer 3 (1).py ============
                                A. a & b = 8
#Us
                                B. a | b = 58
pri
                                 C. a ^ b = 50
                                 D. a << 2 = 224
#Us
                                 E. a >> 2 = 14 and b >> 4 = 0
pri
#Us
pri
#Us
pri
```



```
*IDLE Shell 3.10.4*
le 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) 1 on win32
     Type "help", "copyright", "credits" or "license()" for more information.
>>>
     ======== RESTART: C:\Users\hp\Desktop\Answer 5.py ========
    Enter First length: 19
    Enter Second length: 9
    Enter Third length: 30
     The triangle can be formed?
     No!
```