

C:\Users\Nikhil Saini\spyder-py3\Lab assign 1 i.py

Lab assign 1 i.py* Lab assign 1 ii.py Lab assign 1 iii.py Lab assign 1 iv.py lab assign 1 v.py Lab assign 1 vi.py

```
1 A = "Python is a case sensitive language"
2 # Ques. a
3 len(A)
4 print(len(A))
5
6 # Ques. b
7 print("Python is a case sensitive language"[::-1])
8
9 # Ques. c
10 print(A[10:26])
11
12 # Ques. d
13 print(A.replace("a case sensitive", "object oriented"))
14
15 # Ques. e
16 A = "Python is a case sensitive language"
17 B = A.find('a')
18 print(B)
19
20 # Ques. f
21 print(A.replace(" ", ""))
22
23
24
25
```

Source Console Object

Usage

Here you can get help of any object by pressing **Ctrl+I** in front of it, either on the Editor or the Console.

Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in *Preferences > Help*.

Variable explorer Help Plots Files

Console 1/A

```
In [1]: runcell(0, 'C:/Users/Nikhil Saini/.spyder-py3/Lab assign 1 i.py')
35
egaugnal evitisnes esac a si nohtyP
a case sensitive
Python is object oriented language
10
Pythonisacasesensitivelanguage
```

In [2]:

Python console History

LSP Python: ready

conda (Python 3.8.8)

Line 22, Col 1

ASCII

CRLF

RW

Mem 45%

```
1 N = "Nikhil Saini"
2 SID = "7008"
3 dept = "Mechanical Engineering"
4 CGPA = "10"
5
6 A = ''' Hey, ABC Here!
7 My SID is 2110XXXX
8 I am from XYZ department and my CGPA is 9.9 '''
9
10 A = A.replace("ABC", N)
11 A = A.replace("XXXX", SID)
12 A = A.replace("XYZ", dept)
13 A = A.replace("9.9", CGPA)
14
15 print(A)
16
```

Usage

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Variable explorer Help Plots Files

Console 1/A

```
In [2]: runcell(0, 'C:/Users/Nikhil Saini/.spyder-py3/Lab assign 1 ii.py')
Hey, Nikhil Saini Here!
My SID is 21107008
I am from Mechanical Engineering department and my CGPA is 10

In [3]:
```

Python console History

C:\Users\Nikhil Saini\spyder-py3\Lab assign 1 iii.py

Lab assign 1 i.py* × Lab assign 1 ii.py* × Lab assign 1 iii.py* × Lab assign 1 iv.py × lab assign 1 v.py × Lab assign 1 vi.py ×

```
1 # Question 3 a. b. c.
2 a = 56
3 b = 10
4
5 print(a&b)
6 print(a|b)
7 print(a^b)
8
9 # part d.
10
11 print(a<<2)
12 print(b<<2)
13
14 # part e.
15 print(a>>2)
16 print(b>>4)
17
```

Source Console Object

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Variable explorer Help Plots Files

Console 1/A ×

```
In [3]: runcell(0, 'C:/Users/Nikhil Saini/.spyder-py3/Lab assign 1 iii.py')
8
58
50
224
40
14
0

In [4]:
```

Python console History

LSP Python: ready conda (Python 3.8.8) Line 17, Col 1 ASCII CRLF RW Mem 45%

C:\Users\Nikhil Saini\spyder-py3\Lab assign 1 iv.py

Lab assign 1 i.py* × Lab assign 1 ii.py* × Lab assign 1 iii.py* × Lab assign 1 iv.py* × lab assign 1 v.py × Lab assign 1 vi.py ×

```
1 S = str(input("Enter your sentence here : "))
2 a = S.find("name")
3 if a == -1:
4     print("No")
5 else:
6     print("Yes")
7 print("The End")
8
```

Source Console Object

Usage

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Variable explorer Help Plots Files

Console 1/A ×

```
Enter your sentence here : Hey!! My name is Nikhil
Yes
The End

In [5]: |
```

Python console History

LSP Python: ready

conda (Python 3.8.8)

Line 8, Col 1

ASCII

CRLF

RW

Mem 44%

```
1 a= int(input("Enter side 1 of a triangle: "))
2 b= int(input("Enter side 2 of a triangle: "))
3 c= int(input("Enter side 3 of a triangle: "))
4
5 sum1= a+b
6 sum2= b+c
7 sum3= c+a
8
9 a1= (a <= sum2)
10 a2= (b <= sum3)
11 a3= (c <= sum1)
12
13 print(a1 and a2 and a3)
14
15
```

Usage

Here you can get help of any object by pressing **Ctrl+H** in front of it, either on the Editor or the Console.

Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in *Preferences > Help*.

```
In [1]: runcell(0, 'C:/Users/Nikhil Saini/.spyder-py3/Lab assign 1 v.py')
```

```
Enter side 1 of a triangle: 23
```

```
Enter side 2 of a triangle: 0
```

```
Enter side 3 of a triangle: 34
False
```

```
In [2]: runcell(0, 'C:/Users/Nikhil Saini/.spyder-py3/Lab assign 1 v.py')
```

```
Enter side 1 of a triangle: 3
```

```
Enter side 2 of a triangle: 4
```

```
Enter side 3 of a triangle: 5
True
```

```
In [3]: |
```

C:\Users\Nikhil Saini\.spyder-py3\Lab assign 1 vi.py

Lab assign 1 i.py* × Lab assign 1 ii.py* × Lab assign 1 iii.py* × Lab assign 1 iv.py* × lab assign 1 v.py* × Lab assign 1 vi.py* ×

```
1 a = int(input("Enter first number: "))
2 b = int(input("Enter the second number: "))
3 # Using XOR function
4 n3 = bin(a^b)
5 n4 = n3.count('1')
6 print(n4)
7
8
```

Source Console Object

Usage

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Variable explorer Help Plots Files

Console 1/A ×

```
In [3]: runcell(0, 'C:/Users/Nikhil Saini/.spyder-py3/Lab assign 1 vi.py')
```

```
Enter first number: 25
```

```
Enter the second number: 23
```

```
3
```

```
In [4]: runcell(0, 'C:/Users/Nikhil Saini/.spyder-py3/Lab assign 1 vi.py')
```

```
Enter first number: 1
```

```
Enter the second number: 2
```

```
2
```

```
In [5]: 3
```

```
Out[5]: 3
```

```
In [6]: |
```

IPython console History

LSP Python: ready

conda (Python 3.8.8)

Line 7, Col 1

ASCII

CRLF

RW

Mem 45%