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File Edit View Navigate Code Refactor Run Tools Git Window Help Nguyen_Albert_Lab_3.py - Nguyen_Albert_Lab_3.py
cs131-47853-homework > Chapter 3 > Nguyen_Albert_Lab_3.py
Nguyen_Albert_Lab_3.py x
1 # Lab 3a
2 purchasePrice = int(input("Please enter the total purchase price: "))
3 if purchasePrice < 128:
4     purchasePriceDiscount = purchasePrice * 0.08
5     purchasePriceAfterDiscount = purchasePrice - purchasePriceDiscount
6     print("The price after the discount is $ %s" % purchasePriceAfterDiscount)
7 elif purchasePrice ≥ 128:
8     purchasePriceDiscount = purchasePrice * 0.16
9     purchasePriceAfterDiscount = purchasePrice - purchasePriceDiscount
10    print("The price after the discount is $ %s" % purchasePriceAfterDiscount)
11
12 # Lab 3b
13 shippingInternational = input("Are you shipping internationally (yes or no)? ")
14 print(shippingInternational)
15 if shippingInternational in ["yes", "Yes", "y", "Y"]: # using in same as: or var = "yes" or var == "Yes", ...
16     shippingContinental = input("Are you shipping continental (yes or no)?")
17     if shippingContinental in ["yes", "Yes", "y", "Y"]:
18         shippingRate = 5
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The screenshot shows a Python IDE window titled "Python Console - Nguyen_Albert_Lab_3.py". The main editor displays a Python script that calculates a discount based on a purchase price. The script uses conditional logic to apply different discount rates (0.08 for prices below 128, and 0.16 for prices 128 or above). The user has entered 128 as the purchase price, resulting in a discount of 20.48 and a final price of 107.52. The right-hand sidebar shows the variable inspector, which lists the variables: purchasePrice (128), purchasePriceAfterDiscount (107.52), and purchasePriceDiscount (20.48).

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C:\Python311\python.exe "C:/Program Files/JetBrains/PyCharm 2022.3.2/plugins/python/helpers/pydev/pydevconsole.py" --mode=client --host=127.0.0.1 --port=55604

import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['D:\\github.com\\anguyen798\\cs131-47853-homework'])

Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)]
...: purchasePrice = int(input("Please enter the total purchase price: "))
...: if purchasePrice < 128:
...:     purchasePriceDiscount = purchasePrice * 0.08
...:     purchasePriceAfterDiscount = purchasePrice - purchasePriceDiscount
...:     print("The price after the discount is $ %s" % purchasePriceAfterDiscount)
...: elif purchasePrice >= 128:
...:     purchasePriceDiscount = purchasePrice * 0.16
...:     purchasePriceAfterDiscount = purchasePrice - purchasePriceDiscount
...:     print("The price after the discount is $ %s" % purchasePriceAfterDiscount)
...:

Please enter the total purchase price: >? 128
The price after the discount is $ 107.52

In [3]:
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01 purchasePrice = (int) 128
01 purchasePriceAfterDiscount = (float) 107.52
01 purchasePriceDiscount = (float) 20.48
> Special Variables

3a_Output

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cs131-47853-homework > Chapter 3 > Nguyen_Albert_Lab_3.py
Nguyen_Albert_Lab_3.py x
12 # Lab 3b
13 shippingInternational = input("Are you shipping internationally (yes or no)? ")
14 print(shippingInternational)
15 if shippingInternational in ["yes", "Yes", "y", "Y"]: # using in same as: or var = "yes" or var == "Yes", ...
16     shippingContinental = input("Are you shipping continental (yes or no)?")
17     if shippingContinental in ["yes", "Yes", "y", "Y"]:
18         shippingRate = 5
19     elif shippingContinental in ["no", "No", "n", "N"]:
20         shippingRate = 10
21     print("The shipping rate is $%.2f" % shippingRate)
22 else:
23     shippingRate = 10
24     print("The shipping rate is $%.2f" % shippingRate)
25
26
27 # Lab 3c
28
new *
```

3b_Code

3b_Code

```
Python Console - Nguyen_Albert_Lab_3.py
Python Console (1) x
In [4]: # Lab 3b
...: shippingInternational = input("Are you shipping internationally (yes or no)? ")
...: print(shippingInternational)
...: if shippingInternational in ["yes", "Yes", "y", "Y"]: # using in same as: or var = "yes" or var == "Yes", ...
...:     shippingContinental = input("Are you shipping continental (yes or no)?")
...:     if shippingContinental in ["yes", "Yes", "y", "Y"]:
...:         shippingRate = 5
...:     elif shippingContinental in ["no", "No", "n", "N"]:
...:         shippingRate = 10
...:     print("The shipping rate is $%.2f" % shippingRate)
...: else:
...:     shippingRate = 10
...:     print("The shipping rate is $%.2f" % shippingRate)
...:
Are you shipping internationally (yes or no)? >> yes
yes
Are you shipping continental (yes or no)?>> no
The shipping rate is $10.00

In [5]: |

01 purchasePrice = {int} 128
01 purchasePriceAfterDiscount = {float} 107.52
01 purchasePriceDiscount = {float} 20.48
01 shippingContinental = {str} 'no'
01 shippingInternational = {str} 'yes'
01 shippingRate = {int} 10
> Special Variables
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3b_Output

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Nguyen_Albert_Lab_3.py x
27 # Lab 3c
28
29 new *
29 def lab3c_sort(int1, int2, int3): # Creating function to input test cases as function parameters
30     sorted_list = [int1, int2, int3]
31     sorted_list = sorted(sorted_list)
32     print("%s %s %s becomes %s %s %s" % (int1, int2, int3, sorted_list[0], sorted_list[1], sorted_list[2]))
33
34     lab3c_sort(4, 7, 3) # test case 1 using default integers
35     lab3c_sort(9, 1, 1) # test case 2 using random integers
36
37
38 # Lab 3d
39 firstInteger = int(input("Enter the first integer: "))
40 secondInteger = int(input("Enter the second integer: "))
41 thirdInteger = int(input("Enter the third integer: "))
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43 if firstInteger == secondInteger == thirdInteger:
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```
Python Console - Nguyen_Albert_Lab_3.py
Python Console (1) x
In [7]: # Lab 3c
...:
...: def lab3c_sort(int1, int2, int3): # Creating function to input test cases as function parameters
...:     sorted_list = [int1, int2, int3]
...:     sorted_list = sorted(sorted_list)
...:     print("%s %s %s becomes %s %s %s" % (int1, int2, int3, sorted_list[0], sorted_list[1], sorted_list[2]))
...:
...: lab3c_sort(4, 7, 3) # test case 1 using default integers
...: lab3c_sort(9, 1, 1) # test case 2 using random integers
...:
4 7 3 becomes 3 4 7
9 1 1 becomes 1 1 9

In [8]:

purchasePrice = {int} 128
purchasePriceAfterDiscount = {float} 107.52
purchasePriceDiscount = {float} 20.48
shippingContinental = {str} 'no'
shippingInternational = {str} 'yes'
shippingRate = {int} 10
> Special Variables
```

3c_Output

```
File Edit View Navigate Code Refactor Run Tools Git Window Help Nguyen_Albert_Lab_3.py - Nguyen_Albert_Lab_3.py
cs131-47853-homework > Chapter 3 > Nguyen_Albert_Lab_3.py
Nguyen_Albert_Lab_3.py x
39 # Lab 3d
40 firstInteger = int(input("Enter the first integer: "))
41 secondInteger = int(input("Enter the second integer: "))
42 thirdInteger = int(input("Enter the third integer: "))
43
44 if firstInteger == secondInteger == thirdInteger:
45     print("They are all the same.")
46 elif firstInteger != secondInteger != thirdInteger != firstInteger:
47     print("They are all different.")
48 elif firstInteger != secondInteger and firstInteger != thirdInteger and secondInteger != thirdInteger:
49     print("They are all different.")
50 else:
51     print("They are neither all the same nor all different.")
52
53
54 # Lab 3e
55 str = " Hello, World"
56 print("The number of l's is %s" % str.count("l"))
57
```

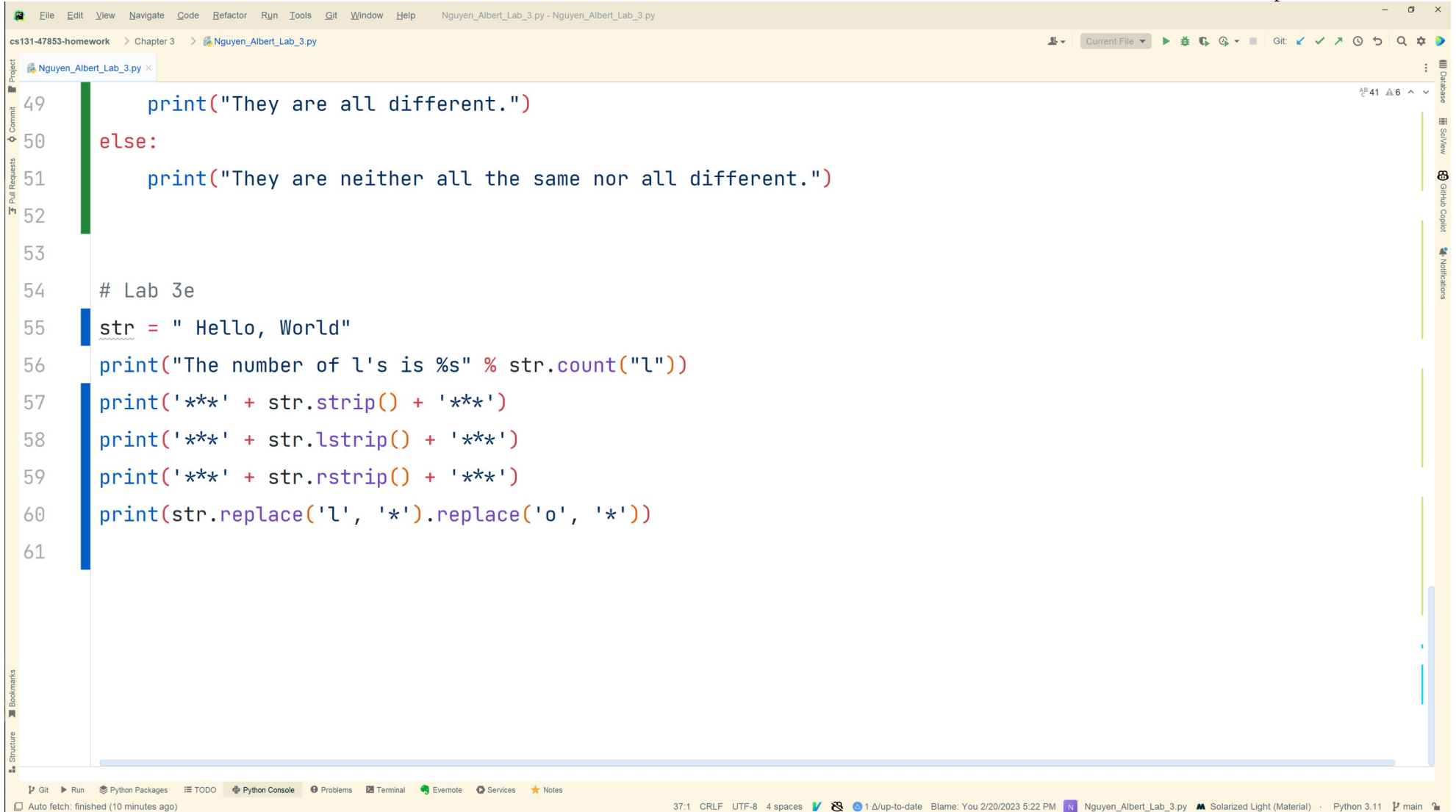
3d_Code

```
Python Console - Nguyen_Albert_Lab_3.py
Python Console (1) x
In [9]: # Lab 3d
...: firstInteger = int(input("Enter the first integer: "))
...: secondInteger = int(input("Enter the second integer: "))
...: thirdInteger = int(input("Enter the third integer: "))
...:
...: if firstInteger == secondInteger == thirdInteger:
...:     print("They are all the same.")
...: elif firstInteger != secondInteger != thirdInteger != firstInteger:
...:     print("They are all different.")
...: elif firstInteger != secondInteger and firstInteger != thirdInteger and secondInteger != thirdInteger:
...:     print("They are all different.")
...: else:
...:     print("They are neither all the same nor all different.")
...:
Enter the first integer: >? 1
Enter the second integer: >? 1
Enter the third integer: >? 3
They are neither all the same nor all different.

In [10]:

01 firstInteger = {int} 1
01 purchasePrice = {int} 128
01 purchasePriceAfterDiscount = {float} 107.52
01 purchasePriceDiscount = {float} 20.48
01 secondInteger = {int} 1
01 shippingContinental = {str} 'no'
01 shippingInternational = {str} 'yes'
01 shippingRate = {int} 10
01 thirdInteger = {int} 3
> Special Variables
```

3d_Output



```
49     print("They are all different.")
50 else:
51     print("They are neither all the same nor all different.")
52
53
54 # Lab 3e
55 str = " Hello, World"
56 print("The number of l's is %s" % str.count("l"))
57 print('***' + str.strip() + '***')
58 print('***' + str.lstrip() + '***')
59 print('***' + str.rstrip() + '***')
60 print(str.replace('l', '*').replace('o', '*'))
61
```

3e_Code

```
Python Console - Nguyen_Albert_Lab_3.py
Python Console (1) x
In [10]: # Lab 3e
...: str = " Hello, World"
...: print("The number of l's is %s" % str.count("l"))
...: print('***' + str.strip() + '***')
...: print('***' + str.lstrip() + '***')
...: print('***' + str.rstrip() + '***')
...: print(str.replace('l', '*').replace('o', '*'))
...:
The number of l's is 3
***Hello, World***
***Hello, World***
*** Hello, World***
He***, W*rld

In [11]:

01 firstInteger = (int) 1
01 purchasePrice = (int) 128
01 purchasePriceAfterDiscount = (float) 107.52
01 purchasePriceDiscount = (float) 20.48
01 secondInteger = (int) 1
01 shippingContinental = (str) 'no'
01 shippingInternational = (str) 'yes'
01 shippingRate = (int) 10
01 str = (str) ' Hello, World'
01 thirdInteger = (int) 3
> Special Variables
```

3e_Output