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1 # Python Basics 2
2 # Working with Numbers
3
4 print("Numbers are the most common data type in Python.")
5 print("Numbers are used within the print() command a lot of ways.")
6 print(" ")
7 # Positive/Negative, Whole/Decimal, Math Operations, Order of Operations, etc.
8
9 # Two Types of numbers.
10
11 # Integer - int() - Shows numbers in whole form. Can be Postive or Negative.
12
13 print(4)
14 print(-30) # Python reads Number Data as an Integer.
15 print(" ")
16
17 # Float - float() - Shows numbers in decimal form. Can be positive or negative.
18
19 print(float(4)) # What prints in the Shell?
20 print(float(-30)) # What prints in the Shell?
21 print(" ")
22
23 # Math Operations.
24 # Add = +
25 # Subtract = -
26 # Multiply = *
27 # Divide = /
28
29 print(3 + 2) # Shell =
30 print(10 - 6) # Shell =
31 print(12 * 5) # Shell =
32 print( 81 / 9) # Shell =
33 print(80 / 9) # Shell =
34
35 # Showing the remainder - %
36 print(80 % 9) # What prints in the Shell?
37
38 # Use print() to solve the following:
39 # 5 x 25
40 # 124 divided by 6
41 # (6 + 4) - 17 x 8
42
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42
43 # Getting Input from users.
44 print("What if we want Python ask us for additonal information?")
45
46 print("We can use the command input() to make Python more interactive.")
47
48 print(" ") # Creates an empty line break.
49
50 # Getting Input from the User
51
52 input("What colour is the sky? ") # Press Return once you have typed your answer.
53
54 # What happens in the Shell? - The program stopped.
55
56 print("We need to provide more details, or instructions, to Python to use input() better.")
57 print(" ")
58
59 # Using variables with input()
60
61 colour = input("What colour is the sky? ") # Stores the question as a variable.
62
63 print(colour) # Prints the value we provided.
64 print(" ")
65
66 name = input("What is your name? ")
67
68 print("Hello " + name + "!")
69 print(" ")
70
71 # Using Numbers with input()
72
73 num1 = input("Enter a number: ")
74 num2 = input("Enter another number: ")
75
76 result = int(num1) * int(num2) # Takes the values of both variables and puts them into a third variable.
77
78 print(result)
79 print(" ")
80
81 # A Small Program using Input...
82
83 while True: # Main program runs off of a Boolean.
84     print("Do you want to know how to keep a gullible person busy for hours? Y/N")
85     response = input("> ") # Get the user's reponse.
86
87     if response.lower() == "no" or response.lower() == "n":
88         break # If "no", break out of While Loop.
89
90     if response.lower() == "yes" or response.lower() == "y":
91         continue # If "yes", go back to top of While Loop.
92
93     print('{} is not a vaid yes/no response.'.format(response))
94
95 print("Thank you. Have a nice day!")
96
97
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