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CPS109 Assignment #1

09/12/18

1. The output of “1/3” yields 0, since the two values being divided are integer values, and when calculating the result the output will be rounded from 0.33 to the nearest integer, which is 0.
2. “1.0/3” yields the correct answer of 0.33, since one of the input values is in the format of a double, a number containing decimal points.
3. The output of the expression “10+3\*7” is 31, because the program will follow the standard order of operations, doing multiplication before addition The computer will multiply 3\*7 first, then add 10.
4. The brackets change the order of operations, and the output will be 91. The computer does the 10+3 first, then multiplying that result by 7.
5. The output value will be “Hithere” as the program will concatenate the two strings into one big string.
6. There won’t be any output for this operations, since the two data types cannot be added.
7. The output will be “Hi10” since the 10 is not an integer value but rather a string.
8. The output will be “HiHiHiHiHiHiHiHiHiHi”, which is the input string repeated 10 times.
9. The output is 12
10. The output is 12
11. The output will be:

JohnTory

John Tory

1. Being computed is the time it would take a turtle to travel from Miami to Seattle in seconds, minutes, hours, days and weeks. The answer is: 1110802.664 seconds.
2. The error tells that the method “pickaFile()” does not exist. Names are case sensitive, and the error is caused because the true name is “pickAFile()”
3. There is no variable “d”, so this code will not run. It is likely the “d” is a typo and the correct code should be:

a = 3

b = 4

c = b \* a

1. The output is the path to the file that was chosen
2. The output is “Picture, filename O:\Courses\cps109\mediasources-4ed\butterfly.jpg height 66 width 52” which gives some details about the properties of the image such as dimensions and file location.
3. The two main colors in the image are yellow and green.
4. The RGB values of the yellow are {R: 254, G: 255, B: 1}
5. The prize recognized the field of computational chemistry, which is the process of developing models and calculations with computers in order to predict the properties and behavior of molecules.
6. Unicode is a superset of ASCII, and while ASCII defines only 128 characters, Unicode defines many more and is intended to be a sort of universal encoding method compatible across all devices.