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Introduction to Programming (CSC 401)

Lab 1

September 18, 2017

1. Create a variable (fAge) and store the value 33.5 into it (.5pt)
2. Write a python expression that creates an integer object using the value stored in fAge and assigns the integer object to a variable iAge (1pts)



1. Create a list (scores) that contains 10 integer values. Each item in scores can be one of these values: 50,20,30,15,65, or 75. Print the values in scores (1pt)
2. Create another list, scores2, and populate it with the items from scores (1pt)
3. Print the last two values in scores2 (1pt)

**Note:** One expression should be used



1. Use a constructor to create a string object, ‘25.9’, and store the object in a variable (price). Print the value of price (1pts)
2. Create a float object using the value stored in price and store the new object into a variable, fPrice (1pt)



1. (5pts) Define a string variable (longWord) and store the value “Pseudopseudohypoparathyroidism” in it. **Write Boolean expressions that check whether**
   1. The last character of longWord is ‘p’
   2. The first and last characters of longWord are equal
   3. The next to the last character of longWord is ‘s’
   4. The last character of longWord is ‘e’
   5. The number of ‘s’ in longWord is four **(use one expression)**
2. Write an expression that stores a substring (first 15 characters) of longWord in a variable shortWord (1pt)





1. Write a Boolean expression that checks whether the result of dividing 100 by 4 is an even number. **One expression must be used for this problem (2pts)**
2. Create an empty list, prices (1pt)
3. Populate prices with the following values: 2.5, 11.99, 13.99, 6.25, 0.99, 24.96. (1.5pts)

**Note:** Do not recreate prices. This may require multiple expressions

1. Use python’s **built-in functions** and arithmetic operators to complete the following (Use one expression for each question):
   1. Sum the items in prices (1pt)
   2. find the sum of the minimum and maximum values in prices (1.5pts)
   3. what is the remainder of dividing the last item in prices by the first item in prices? (1pt)





1. Write an expression that replaces the last 3 characters in longWord with ‘ISM’ (1.5pt)
   1. Was the expression successful? Explain why it was or was not successful



The expression was not successful because the longWord variable is a string, and strings are immutable which defines that they cannot be modified like lists that are mutable therefore, lists can be modified. However, if I name the variable longWord with ‘ISM’ then the variable will exist, while, Pseudopseudohypoparathyroidism will exist somewhere in the program.

1. Write python **expressions** that set the second item in prices to 12.99 and the fourth item to 1.99 (1pt). **Note:** This require multiple expressions



1. Write a Boolean **expression** that checks whether the second item in prices is equal to the last item in prices and the fourth item in prices is greater than the third-from-last item in prices. **One expression must be used for this problem (2pts)**

