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| ***Computer Science 2061 -*  ASSIGNMENT #1** | | |
| **Program** | Description | **Execution Listing** |
|  | Write a program that assigns ‘A’, 65, 3.1415, “This is a test” to variables and then displays the variable types and contents. | *<class 'str'> A*  *<class 'int'> 65*  *<class 'float'> 3.1415*  *<class 'str'> This is a test* |
|  | Write a program that calculates the sum and average of the five values: 1,2,3,4,5. Use variables for the five values, the sum and average. Assign all five values to the variables using one line. | *The sum is 15*  *The average is 3.0* |
|  | Calculate the cost of a stock transaction. Given that a person purchased 750 shares at $35 a share and that there is a 2% commission, calculate the amount paid for the stock, the amount of the commission and the total amount. | *Stock cost: $ 26250.0*  *Commission cost: $ 525.0*  *Total cost: $ 26775.0* |
|  | Write a program that defines a function addThree. addThree is passed three integer paramters and displays their sum. Use default values of 1,2,3 for the three arguments. Call the function three times:   * With 3 arguments 4,5,6 * With no arguments * With 1 argument 4 | *The sum of the three values is 15*  *The sum of the three values is 6*  *The sum of the three values is 9* |

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| **Notes** |
| 1. In the execution listing, numeric values don’t have to appear exactly as shown above. For example, $44.50 is OK instead of $44.5. 2. Make sure that you use good programming style and documentation. 3. **USE VARIABLES FOR ALL VALUES IN THE PROGRAM**. 4. Unless instructed otherwise, always use the test data described in the problem. 5. Copy and paste your execution and code listings into the *Homework Template* document. Please ensure that:    * Problems are in the order listed on the assignment sheet (I.E. Program #1 first, Program #2 second, etc.)    * The execution listing corresponds with the code listing. In other words, the code listing will produce the execution listing. If it does not, no credit will be received for that problem. 6. The work you submit must be your own. Please note that any of the following actions are considered cheating:    * Electronically copying or inserting any code that you did not create.    * Manually copying or inserting any code that you did not create. |