## Homework #4 - abcd - (4 parts)

# HW\_4a

**Write a program and include the following:**

* Ask the user to input five integers from the keyboard.
* Output each of the five numbers to the screen.
* Each number should be on a separate line (see output below), and all should be

indented 10 spaces (the right-most digit should be ten spaces from the left margin).

* Then calculate the sum of the numbers and output it to the screen.
* Then calculate and output the average of the five numbers.
  + Input some dummy numbers to see if your average is correct.
    - Note: The average should be a decimal number because integer

division truncates the remainder.

* + If the average is not correct, what can you change integer values to float or

double, just for calculating the average? (typecast)

* Format the output so that the average is displayed with two decimal places to the

right of the decimal place.

**/\* OUTPUT**

Enter five integers:

2

5

66 These 5 numbers entered by the user are read in and stored in variables.

32

433

The five integers you entered are:

2

5

66 The numbers are right aligned.

32

433

The sum of the five numbers is 538.

The average of the five numbers is 107.60.

Press any key to continue \*/

# HW\_4b

**Write a program and include the following:**

* Ask the user to enter his or her age and press the enter key.
* Then prompt the user to enter his or her first and last name and press the enter key.
* Then output to the screen the user’s name and age (see output below).

**/\* OUTPUT**

Please enter your age and press Enter: **39** User enters 39 and Tom Lee

Please enter your first and last name and press Enter: **Tom Lee**

Your name is Tom Lee, and you are 39 years old

Press any key to continue

# HW\_4c

**Write a program and include the following:**

* Ask the user to input three integers.
* Read in the integers to the standard input stream.
* Then write the values to a file called data.txt on the c: drive.
* Make sure to include code that checks to make sure the file opened successfully.
* When finished, open the text file to see if it contains the data.
* While Notepad is open, add three more integer numbers to the file.
* There should now be six integers in the file.
* Close Notepad – Make sure to Save the data before you close the file.

**/\* OUTPUT**

Enter 3 values:

12

34

21

The data has been written to file.

Press any key to continue \*/

# HW\_4d - Write a program and include the following:

* Include code to open the data.txt file and read in the six integers.
* Make sure to include code to make sure the file opens successfully.
* Read in the six numbers and output them to the standard output stream (screen).
* Format the output so the each number is on its own line (see example below).

**/\* OUTPUT**

The values in the file are:

44

55

33

22

12

23

Press any key to continue \*/

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Note: For all 4 parts, include an information section at the top of each program. (See syllabus)

* Include your name, class, and homework in comments.
* Make sure to include the separator lines as shown in the syllabus.

Copy and Paste the output below your source code.

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