CSCI 259/390
Lab 2 – Dynamic Arrays

Time Due:
This lab is due Sept. 21 – 10:00 PM.

Work to Do:
For this lab, you are to do the following:
1. Create a new C++ program called "lastname_lab2.cpp" (use your actual last name)
2. Prompt the user to enter the size of an array
3. Create a dynamic array the size of the user's input
4. Have the user enter in values to populate the array. Do this using a function that has the following prototype:
   ```
   void populate_array(double array[], int array_size);
   ```
5. Print the entire contents of the array. Do this using a function that has the following prototype:
   ```
   void print_array(double array[], int size);
   ```
6. Print the average of all the values. Use a function to return the average with the function having the following prototype:
   ```
   double get_average(double array[], int size);
   ```
7. Delete the array before you exit the program.
8. 10 points of the assignment will be for "pretty print." In other words, your output should be easy to read and understand.
9. 10 points of the assignment will be for "pretty code." In other words, your code you be formatted cleanly and with comments.

Submission:
1. Use WinSCP to copy your program from Turing to your machine
2. Send your code as an attachment to chhumph1@olemiss.edu
3. Subject of email should be: Lastname – Lab 2

Example Output 1:
Enter the size of your array: 5
Enter array[0]: 1
Enter array[1]: 2
Enter array[2]: 3
Enter array[3]: 4
Enter array[4]: 5
Your array: 1 2 3 4 5
Array average: 3

Example Output 2:
Enter the size of your array: 5
Enter array[0]: 2.4
Enter array[1]: 8.3
Enter array[2]: -4.5
Enter array[3]: 23.9
Enter array[4]: 8
Your array: 2.4 8.3 -4.5 23.9 8
Array average: 7.62