Homework #5 – Solution
(C Programming for Beginners - OnLine)

Note: *If you complete this (specially 5.1 and 5.2) and next homework, you will be much closure to your in designing your midterm project*

5.1 Write a program, which will display the menu with 5 items. It will ask the use to give their choice. It will trap all possible errors and then print the result when correct input is provided before exiting the program.

Example user interface:

```
Welcome to sorting program

        1. Title
        2. Rank
        3. Date
        4. Stars
        5. Likes


Enter your choice between 1 and 5 only: s;fa fa f
You have entered an invalid choice. Try again.
Enter your choice between 1 and 5 only: 9
You have not entered a number between 1 and 5. Try again.
Enter your choice between 1 and 5 only: 3

You entered valid choice 3
Thank you for giving your choice
```
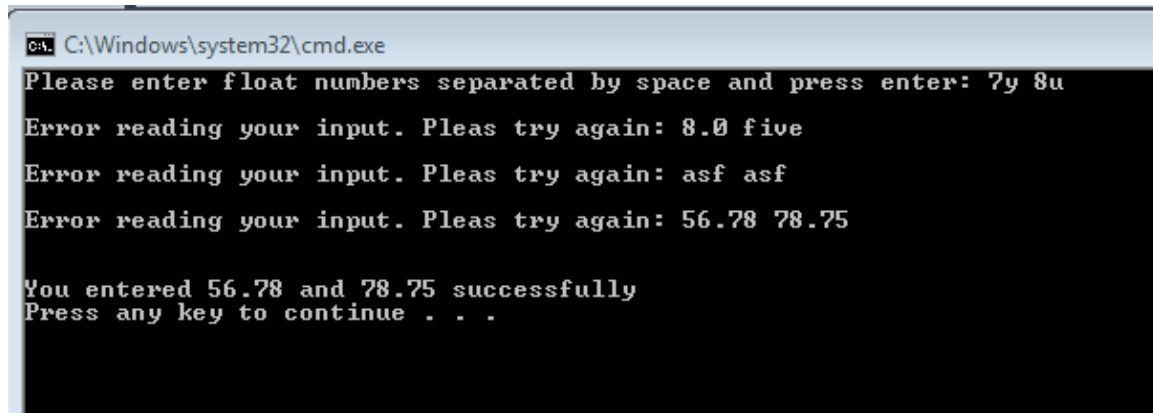
5.2 Write a program that will give the user prompt to enter two float (or double) values. If the values inputted are correct then display the inputted two values. If user enters characters instead of numbers or if they enter invalid numbers then the program will display the error message and ask the user to re-enter the correct values again. It only exits when the correct input is received and displayed.

Example user interface:

```
C:\Windows\system32\cmd.exe
Please enter float numbers separated by space and press enter: 7y 8u

Error reading your input. Pleas try again: 8.0 five

Error reading your input. Pleas try again: asf asf

Error reading your input. Pleas try again: 56.78 78.75


You entered 56.78 and 78.75 successfully
Press any key to continue . . .
```

5.3 Here is a definition of integer array for 7 temperatures of the week. It is already initialized and there are variables declared for the minimum, maximum, total and average temperatures. These variables are going to be used to get the these values for this weekly temperature

```
int weeklyTemp[] = { 69, 70, 71, 68, 66, 71, 70 };
int i, max = 0, min = 0;
float total = 0, average;
```

Given the above definition, write the code to:
   a) Print the daily temperature (assume, first day Sunday), e.g.
       The temperature on day 1 was 69:
   b) Find and print the minimum and maximum temperature of the week
   c) Calculate and print the average temperature of the week

Hint: Use loops (for or while)

Sample Output:

```
The temperature on day 1 was 69:
The temperature on day 2 was 70:
The temperature on day 3 was 71:
The temperature on day 4 was 68:
The temperature on day 5 was 66:
The temperature on day 6 was 71:
The temperature on day 7 was 70:

The Minimum temperature is: 66
The Maximum temperature is: 71
The average temperage for the week is: 69.28571


Thank you for using my homework #6 solution
```