Instructions: AFTER debugging all the below problems,

- Create a Directory **Lab7**
- Unless requested for a specific script name in the instructions, create scripts called “1”, “2” etc for each step below
- Within the Lab4 directory, run the command “script 1.out” and run script 1, then “exit” when complete. Repeat for each step.
- E-Mail to the instructor when complete. I can access your HOME directory and view the results.

This assignment is due in 3 weeks.

Using **Python** Script, write programs to:

1) Prompt user to input regular pay, bonus pay and print out total pay (regular + bonus).

2) Loop requesting user input of a single word of data to a maximum of ten times or when user enters “n”. Then display the data entered.

3) (a) prompt the user to enter the letter "l", "p", "w" or "q"
   (b) depending on the input from (a), do the following
   
   l Execute the ls command
   p Execute the pwd command
   w Execute the whoami command
   q Quit the program

   If an input other than "l", "p", "w" or "q" is provided, display the message: "Sorry, that is not a valid option"

   (c) The script should continue looping, asking for and processing the input, until the user enters "q" to quit the program.

4) Perform the following:

   - Clear the screen
   - Declare an array to hold 10 numbers
   - Prompt the user for a number between 1 and 100 (or ENTER to terminate), display an error message if the number is no in this range and reprompt for a number
   - Store the number in the array
   - Loop repeating steps 3 and 4, include logic so the loop is repeated a maximum of 10 times, terminate the loop if the user just hits return
   - Display the following calculations (with labels describing the output):
     The sum of all the numbers
     The average of all the numbers
     The number of numbers entered
     The largest number entered
     The smallest number entered