**Directions:**

Complete the following pre-lab assignment before coming to next week’s lab. It will help you in completing the lab assignment. If you have any questions or have problem in completing the prelab ask TAs for help during TA hours or schedule an appointment or meet Dheeraj on Sunday (2/19) at noon.

**Purpose:**

* Extend things learned in previous labs and HW1.
* Start writing functions

**Description:**

Implement a C program using functions. Ask user for an input. Check if the number is positive or not by writing a function called checkError(). This function takes an integer as input argument and returns an integer. It returns 1 if the number is positive else returns 0. Use a loop to continue to ask for an input until the user enters a positive number.

Prototype: int checkError(int)

Once you get the number, implement another function checkEven(). This function takes the validated number as an input and checks if it is odd or even, if it is even it returns 1 back to the main() else it returns 0.

Prototype: int checkEven(int)

All the printfs have to be in main. **Make sure you pay attention to prototypes, function calls and function definitions**. Not writing in the form of functions will result in loss of credit in the labs. You will use these two functions in the lab next week.

Check the Sample output before you start.

***Tip for Lab next week:*** be very sure about how to use “/”, “%”. Also, “*for” and “while” loops*. That will be a major helping tool.

**Sample Output**

Characters in bold are input from the user

[dpstm3@bengal-vm2 ~]$ ./a.out

Enter a positive number: **-999**

Error! Enter a positive number only: **0**

Error! Enter a positive number only: **-87**

Error! Enter a positive number only: **823**

823 is an Odd number

[dpstm3@bengal-vm2 ~]$ ./a.out

Enter a positive number: **-98**

Error! Enter a positive number only: **-33**

Error! Enter a positive number only: **698**

698 is an Even number

