CENG 111- LAB-7

1. Write a program to input two integers at a time (x and y), until their product is negative. Program will find value of F according to the following rule, using loops.

\[ F = \begin{cases} 
3^x, & \text{if } x*y \text{ is even} \\
y!, & \text{if } x*y \text{ is odd} 
\end{cases} \]

2. a. Write a program to input a positive integer number and to find if it is a prime number (Prime number: integer that is divisible by 1 and itself only).

b. Modify a. so that program checks if 20 input integer numbers are prime or not

3. Write a program to input n and display that many ‘*’ on screen. Use a function that input n from user and displays that many * on the screen. Main function will only call this function.

4. a. Write a program to display upper case letters in an input sentence. In this program function find() will input the sentence character by character and will display how many upper case letters exists in the sentence. Main function will only call find().

5. a. Write a program with function abc(). Function will input a real number from user and displays its integral and decimal part on the screen. Main will only call this function.

b. Modify a. so that program will do the required task for 10 different real numbers.