**Lab 4**

Q1: Create a simple C program which prints all the odd numbers between 1 to 100.

Q2: Create a C program which prints the following:  
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+++++

Q3: Write a function to accept 20 characters from the character set, and to display whether the number of lower-case characters is greater than, less than, or equal to number of upper-case characters. Display an error message if the input is not an alphabet.

Q4: Modify the function to accept characters endlessly until the character ‘!’ is input from keyboard.

Q5: Assume you have a box of n chocolates. Take n from the user. Kids can take chocolates from the box **repeatedly till number of chocolates are zero or they want to exit the program**. The number of chocolates, g, that are to be each time, is also to be taken from the user. If a kid takes one chocolate a message should be displayed “Chocolates left on box: 1”. The message must show the exact number of chocolates taken from the box each time. Write a function called gift. Here, (a) the input g, (b) the update in the count in the box should take place, and (c) display the message.

Sample: Box has 10 chocolates

➢ Take a chocolate? Yes

How many? 2

Output: “Chocolates left on box: 8”.

➢ Take a chocolate? Yes

How many? 12

Output: “Not enough chocolates”

➢ Take a chocolate? Yes

How many? -2

Output: “You surely can eat at least one”

➢ Take a chocolate? No

Program Exits