Computer Programming Lab (CSE104L)
Lab 6

Q1. Write a C program to print Fibonacci series up to n terms.
Q2. Read two single digit numbers and calculate first number raised to the power second number.
Q3. Write a program to print all palindromes between 1 and 100.
Q4. Read two numbers and compute their GCD
Q5. Read 10 numbers and display the maximum number with number of appearances.
For example, if the number are: 2 8 9 5 7 9 2 9 3 4, output should be: 9 3
Q6. Write a program to read n values in an array and then print them in a reverse order, without using another array.
Q7. Write a program to print prime numbers between 2 and 50.
Q8. Write a C program that will read a positive integer and determine and print its binary equivalent.
(Hints: use successive division and remainder operations)
Q9. Write a C program to read the age of 20 persons and store it in an array and calculate and print the histogram of different age groups (i.e., count number of persons in the age group 0-10, 11-20, 21-30 and so on)
Q10. Write a program to compute the value of Euler's number e, that is used as the base of natural logarithms. Use the following formula
e=1 +1/1! +1/2! +1/3! +1/4! +..... +1/n!
Use a suitable loop construct. The loop must terminate when the difference between two successive values of e is less than 0.0001
Q11. Write a C program to count total number of negative elements in an array.
Q12. Write a C program to input elements in array and search whether an element exists in array or not and if yes then at which position.
Q13. Write a program to print all integers in between 1 and 100 that are not divisible by either 2 or 3
Program should also count the number of such integers and print
Q14. Write a program to print following patterns according to the value of 'n', read from the keyboard.

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*                    *                    *
**                  **                   ***
***                ***                  *****
****              ****                ********
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0                      1
12                     222
345                    33333
6789                   4444444
01234                  555555555
567890                 6666666666666
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