

Assignment of CMSA CC 1 P: Programming in C Laboratory

1. Write a program to find out the G.C.D and L.C.M of two numbers.
2. Write a program to reverse a number.
3. Write a program to find out the the area of a traingle, square and rectangle.
4. Write a program to generate the following patterns for N number of rows:

i)

```
*
* *
* * *
* * * *
```

ii)

```
      *
     * *
    * * *
   * * * *
```

iii)

```
      *
     * *
    * * *
   * * * *
```

5. Write a program to convert temprature from Centigrade to Fahrenheit and vice-versa.
6. Write a program to generate a marksheet based on “Gradation” for a given marks.
7. Write a program to find out the prime numbers within a given range.
8. Write a program to find out the factors of a given number.
9. Write a program to calculate the factorial of a given number.
10. Write a program to generate the Fibonacci series up to Nth term.
11. Write a menu-driven program to implement different arithmetic operations.
12. Write a program to print a number in word.
13. Write a program to check a character is an alphabet, digit or special character.
14. Write a program to print the elements of an array in reverse order.

15. Write a program to get the summation of all the numbers in an array.
16. Write a program to find out the duplicate elements in an array.
17. Write a program to find out an element in an array.
18. Write a program to sort elements of an array in ascending and descending order.
19. Write a program to count the frequency of each element in an array.
20. Write a menu-driven program to implement matrix-addition, subtraction and multiplication.
21. Write a program to create a student database of N number of records. Each record consists of followings:

Student_Name, Student_Roll, Total_Marks, Subject
(Ex: Amit Dey, 13, 345, Computer Science)

Arrange the records with respect to Student_Name, Student_Roll and Total_Marks respectively. Create the database using “structure” as well as “union” respectively.
22. Write a program to check a string (case sensitive) is palindrome or not.
23. Write a program to sort a list of strings in ascending and descending order.
24. Write a program to read content of a “.txt” file and copy the content of the said file into another “.txt” file.