**1-D ARRAY**

**Ques 1-**Write a program to input a string and perform following functions:

1. To count number of vowels

2. To count number of consonants

3. To count number of words

4. To generate a new string by replacing alternate characters of the original string with hyphen

5. To generate a new string by toggling the original string

6. To find whether the given string is palindrome or not

**Ques 2-** Write a program to input an array of 10 integers and perform following-

1. To display prime number present in it.

2. To find the average of the elements of the array and count the no. of elements lying above and below the average value

3. To find the sum of even and odd elements present in the array separately

4. To find the sum of elements lying at even and odd positions of the array

5. to find the sum of multiples of 7 present in an array

6. To find the max and min no. present in the array.

7. To reverse the array using swapping of elements.

**2-D ARRAY**

**Ques 1- W**rite a program in c++ to input a 3*3 matrix-

1. find the sum of elements

2. find the sum of even and odd elements separately

3. find the sum of elements positioned alternatively

4. To print the prime numbers

5. To print row-wise sum of elements

6. To print column-wise sum of elements

7. To print sum of elements lying on diagonal 1 and diagonal 2

8. To print the sum of elements which are not lying on any of the diagonals

9. To print a 2-D array row-wise and column-wise

10. To swap 1$^{st}$ column with last column or 1st row with last row

**Ques 2- W**rite a Menu driven program to perform following operations on two 2-D arrays.

      Menu

1. Equality

2. Addition

3. Substraction

4. Multiplication

5. Exit

**Ques-3-**Write a program to display lower triangular matrices and upper triangle matrices

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***