

### **Exercise 6**

Write C functions to implement the following

- 1) Print all prime numbers from between two numbers.
- 2) Read weekday number and print weekday name
- 3) Check whether a character is VOWEL or CONSONANT
- 4) Swap 2 numbers without temporary variable.
- 5) Check if the given digit is a palindrome or not
- 6) Search an element in an array
- 7) Input a 2D array and print the row wise and column wise sum of numbers.
- 8) Bubble sort algorithm
- 9) Matrix addition, subtraction and multiplication
- 10) Sum of main diagonal elements of a matrix.
- 11) Find the G.C.D of given numbers
- 12) Convert a binary number to decimal, octal and vice-versa
- 13) Check whether a number can be expressed as the sum of two prime numbers.
- 14) A supermarket maintains a pricing structure for all of its products. Each product has a value N printed on it. The price of the item is determined by multiplying all its digits. The goal here is to create software that, given the code of any item N, will compute the product (multiplication) of all the value digits (price).
- 15) Given two non-negative integers  $n_1$  and  $n_2$ , where  $n_1 < n_2$ . The task is to print and find the total number of integers in the range  $[n_1, n_2]$  (both inclusive) which have no repeated digits.