# **Java Marathon.**

# **Topic : Java Language and algorithms.**

1. Check if a nonzero positive number entered is odd or even.
2. Check if any positive number is odd or even.
3. Check if any positive number is prime or non prime.
4. Generate prime numbers m till n.
5. Print day of the week for a number entered by the user.
   1. Eg. 0 for Sunday
   2. 1 for Monday so on..
6. A company insures it’s employees if any of the following criteria is met by them.
   1. Employee is UnMarried
   2. Employee is Married Male above 30 years of age.
   3. Employee is Married Female above 25 years of age.

(Values are entered from command line: Ex :’U’ or M female 26 so on.

Write a java program to display message if the employee is insured or not

7. Write a java method to implement linearSearch on an array of numbers.

public static int liSearch(int numbers[],int key) that returns the position of the key element or -1. Test with a main method.