## **Java Assignments**

## **Chapter: Java Language Constructs**

## **Level : Beginner**

1. Create a Java application that has the following functionalities
   1. Checking for a prime number
   2. Generating Prime Numbers from lowerlimit to upperlimit that are passed as parameters.

Create a class PrimeGen that has 2 methods isPrime(..) and genPrime(..) for the above functionalities.

1. Write a Java program that prints day of the week when user inputs a number.
   1. Ex: 0 is for Sunday
   2. Optimize the code without using switch case.
2. 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

1. 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.

1. Write a Java application that has methods to encrypt and decrypt strings that are passed as parameters.