Q.6>> Write a programme using multithreading where 2 threads are run. The 1st thread Fibonacci will display the series for n terms with 1000ms delay & 2nd thread name prime will display prime numbers from 1 to n terms with 500ms delay.

/*multithreading*/

```
import java.util.*;
import java.lang.Thread;
public class Multithreading
{
   public static void main(String args[])
   {
      new Fibonacci().start();
      new Prime().start();
   }
}
class Fibonacci extends Thread
{
   public void run()
   {
      int n=16;
      int i,a=0,b=1,c;
      System.out.println("the fibonacci series is:");
      System.out.println(a);
      System.out.println(b);
      for(i=2;i<=n;i++)
      {
         c=a+b;
         System.out.println(c);
         a=b;
```

```
            b=c;
            try
            {
               sleep(1000);
            }
            catch(Exception e)
            {
            }
         }
         System.out.println("exit from fibo");
      }
}
class Prime extends Thread
{
   public void run()
   {
      int n=16;
      int i,j,ct;
      for(i=1;i<=n;i++)
      {
         ct=0;
         for(j=2;j<=(i/2);j++)
         {
            if(i%j==0)
            {
               ct++;
               break;
            }
         }
         if(ct==0)
         {
```

```
            System.out.println("prime no :"+i);
        }
        try
        {
            sleep(500);
        }
        catch(Exception e)
        {
        }

    }
    System.out.println("exit from prime");
  }
}
```