Client Program :

```java
import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import javax.swing.JButton; import

javax.swing.JFrame; import

javax.swing.JLabel; import

javax.swing.JTextField; import

java.rmi.NotBoundException; import

java.rmi.RemoteException; import

java.rmi.registry.LocateRegistry; import

java.rmi.registry.Registry; import

java.util.Scanner; import

java.awt.Color;


class Swing extends JFrame implements ActionListener {


    JButton jb1;

    JTextField jt1;

    JLabel lbl, lb3;


    Swing() {


        lb3 = new JLabel("Enter number");

        lb3.setForeground(Color.WHITE);

lb3.setBounds(160, 50, 150, 60);        add(lb3);


        jt1 = new JTextField();

jt1.setBounds(160, 100, 150, 30);

add(jt1);
```

```java
    lbl  =  new  JLabel("Result  :");
lbl.setForeground(Color.WHITE);
lbl.setBounds(160, 140, 150, 30);
    add(lbl);



    jb1 = new JButton("Check");
jb1.setBounds(160, 200, 100, 30);        add(jb1);


    jb1.addActionListener(this);


    setLayout(null);        setSize(600, 400);
setVisible(true);        setTitle("Prime Number");
getContentPane().setBackground(Color.BLACK);
  }


  public void actionPerformed(ActionEvent e)
{
        try
        {
        Registry reg = LocateRegistry.getRegistry("localhost",3333);
    prime pd = (prime)reg.lookup("Hii Server");
int a = Integer.parseInt(jt1.getText());


    String c;


    if (e.getSource().equals(jb1)) {        c =
pd.prime(a);        lbl.setText("Result : "+
```

```java
String.valueOf(c));

lbl.setForeground(Color.WHITE);

        }

            }catch(RemoteException p)

            {

                    System.out.println("Exception"+e);

            }catch(NotBoundException q)

            {

                    System.out.println("Exception"+e);

            }

    }


    public static void main(String args[]) throws RemoteException ,NotBoundException

    {

        Swing t = new Swing();


    }
}
```

Server Program :

```java
import java.rmi.RemoteException; import

java.rmi.registry.LocateRegistry; import

java.rmi.registry.Registry; import

java.rmi.server.UnicastRemoteObject;
```

```java
public class prime_server extends UnicastRemoteObject implements prime{
public prime_server() throws  RemoteException

   {

     super();

   }


   //@Ovverride


   public String prime(int n) throws RemoteException {

               int num = n;
String p = "Noo";
boolean flag = false;

               for (int i = 2; i <= num / 2; ++i) {

                       // condition for nonprime number

               if (num % i == 0) {

                                  flag = true;

                                  break;

                       }

               }

               if (!flag)

                       p="Yes";

        else

p="No";

               return p;

               }


   public static void main(String args[]) throws RemoteException

   {

try

{
```

```java
        Registry reg = LocateRegistry.createRegistry(3333);

reg.rebind("Hii Server", new prime_server());

        System.out.println("Server Ready!..");

    }

    catch(RemoteException e)

    {

        System.out.println("Exception" +e);

    }

    }

}
```

Register Program :

```java
import java.rmi.*; public interface

prime extends Remote

{

    public String prime(int n) throws RemoteException ;

}
```

Outptuts: