Practical No. 2A

Write a program for implementing Client Server communication model using UDP.

Program which finds entered number is even or odd

```
1. udpClientEO.java
import java.io.*;
import java.net.*;
public class udpClientEO
  public static void main(String args[])
  {
    try
    {
      DatagramSocket ds = new DatagramSocket(1000);
      BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
      System.out.println("Enter a number : ");
      String num = br.readLine();
      byte b[] = new byte[1024];
      b = num.getBytes();
      DatagramPacket dp = new DatagramPacket(b, b.length,InetAddress.getLocalHost(), 2000);
      ds.send(dp);
      byte b1[] = new byte[1024];
      DatagramPacket dp1 = new DatagramPacket(b1, b1.length);
      ds.receive(dp1);
      String str = new String(dp1.getData(), 0, dp1.getLength());
      System.out.println(str);
    }
```

```
catch(Exception e)
    {
        e.printStackTrace();
    }
}
```

```
2. udpServerEO.java
import java.io.*;
import java.net.*;
public class udpServerEO
  public static void main(String args[])
  {
    try
    {
      DatagramSocket ds = new DatagramSocket(2000);
      byte b[] = new byte[1024]; // 1 mb of variable storage
       DatagramPacket dp = new DatagramPacket(b, b.length);
      ds.receive(dp);
      String str = new String(dp.getData(), 0, dp.getLength());
      System.out.println(str);
      int a = Integer.parseInt(str);
      String s = new String();
      if (a % 2 == 0)
        s = "Number is even";
      else
        s = "Number is odd";
      byte b1[] = new byte[1024];
      b1 = s.getBytes();
      DatagramPacket dp1 = new DatagramPacket(b1, b1.length, InetAddress.getLocalHost(), 1000);
      ds.send(dp1);
    }
    catch(Exception e)
      e.printStackTrace(); }}}
```