Experiment no.7

Aim:- implementation of client-server Architecture using TCP/IP.

```
A)Client-program:-
```

```
Input:-
```

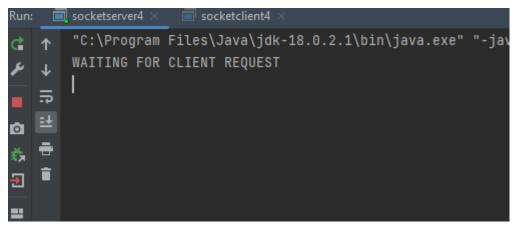
```
Package manishjadhav;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.net.InetAddress;
import java.net.Socket;
import java.net.UnknownHostException;
public class socketclient4 {
  private static Socket Socket;
  private static int i;
  public static void main(String[] args)throws
      UnknownHostException,IOException,ClassNotFoundException,InterruptedException{
    InetAddress host=InetAddress.getLocalHost();
    Socket socket=null;
    ObjectOutputStream oos=null;
    ObjectInputStream ois=null;
    for(int i=0;i<5;i++);
    {
      Socket=new Socket(host.getHostName(),14);
      oos=new ObjectOutputStream(Socket.getOutputStream());
      System.out.println("SENDING REQUEST SOCKET SERVER");
      oos.writeObject("Name: Manish Jadhav\n"+"PRN:2030408246006\n"+"Roll no: 2201933");
      ois=new ObjectInputStream(Socket.getInputStream());
      String message=(String)
          ois.readObject();
      System.out.println("Message:"+message);
      ois.close();
      oos.close();
      Thread.sleep(100);
    }
}
```

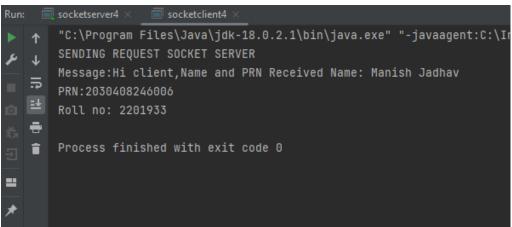
b)server-program:-

```
input:-
```

```
package manishjadhav;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.net.ServerSocket;
import java.net.Socket;
public class socketserver4 {
  static ServerSocket server;
  static final int port=14;
  public static void main(String[]args)throws IOException,ClassNotFoundException{
    socketserver4 f=new socketserver4();
    server=new ServerSocket(port);
    while(true){
      System.out.println("WAITING FOR CLIENT REQUEST");
      Socket socket=server.accept();
      ObjectInputStream ois=new ObjectInputStream(socket.getInputStream());
      String message=(String)
          ois.readObject();
      System.out.println("Message received "+message);
      ObjectOutputStream oos= new ObjectOutputStream(socket.getOutputStream());
      oos.writeObject("Hi client,Name and PRN Received "+message);
      oos.close();
      socket.close();
      if(message.equalsIgnoreCase("exit"))
        break;
    System.out.println("Shut down socket server!!!.....");
  }
}
```

Output:-





| Practical Performance (4) | Writeup & Oral (4) | Attendance (2) | Total (10) |
|---------------------------------|-----------------------|----------------|-------------------|
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