Information Technology Department

Academic Year: 2021-2022

Class: S.Y.B.Tech   **Sem.:** IV   **Course:** IT207 Computer Communications and Networks

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Class: IT (Batch-D)

Experiment No.: 7

Aim: To compute the addition of two numbers using Socket Programming in Java.

Code:

Client

```java
import java.net.*;
import java.io.*;

public class Client {
  public static void main(String args[]) throws Exception {
    Socket socket = new Socket("localhost", 6464);
    DataInputStream din = new DataInputStream(socket.getInputStream());
    DataOutputStream douta = new DataOutputStream(socket.getOutputStream());
    DataOutputStream doutb = new DataOutputStream(socket.getOutputStream());
    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
    int a, b, c;
    a = Integer.parseInt(br.readLine());
    b = Integer.parseInt(br.readLine());
    douta.writeInt(a);
    douta.flush();
    doutb.writeInt(b);
    doutb.flush();
    c = din.readInt();
    System.out.println("Addition is: " + c);
    douta.close();
    doutb.close();
    socket.close();
```

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```
    }
}
```

Server

```
import java.net.*;
import java.io.*;

public class Server {
    public static void main(String args[]) throws Exception {
        ServerSocket serversocket = new ServerSocket(6464);
        Socket socket = serversocket.accept();
        DataInputStream dina = new DataInputStream(socket.getInputStream());
        DataInputStream dinb = new DataInputStream(socket.getInputStream());
        DataOutputStream doutputstrm = new DataOutputStream(socket.getOutputStream());
        BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
        int x, y, z;
        x = dina.readInt();
        y = dinb.readInt();
        z = x + y;
        doutputstrm.writeInt(z);
        doutputstrm.flush();
        dina.close();
        dinb.close();
        socket.close();
        serversocket.close();
    }
}
```

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Output: