

Exp No: 6

REMOTE COMMAND EXECUTION

Date:

AIM

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CODE

Server.java

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

class Server {
    public static void main(String args[]) throws IOException {
        try {
            String str;

            ServerSocket server=new ServerSocket(6555);
            System.out.println("Waiting For Client..");
            Socket socket=server.accept();
            System.out.println("Connection Established..");

            DataOutputStream dos = new DataOutputStream(socket.getOutputStream());
            DataInputStream dis = new DataInputStream(socket.getInputStream());
            str=dis.readUTF();

            Runtime r=Runtime.getRuntime();
            Process p=r.exec(str);

            BufferedReader stdInput = new BufferedReader(new
            InputStreamReader(p.getInputStream()));

            String fullstring = "";
            String string = null;
            while ((string = stdInput.readLine()) != null) {
                fullstring = fullstring.concat("\n");
                fullstring = fullstring.concat(string);
            }
            dos.writeUTF(fullstring);
        }
        catch(IOException e) {
            System.out.println("Error");
            System.out.println(e);
        }
    }
}
```

Client.java

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

class Client {
    public static void main(String args[]) throws IOException {
        try {
```

```

Scanner s = new Scanner(System.in);
String str;

Socket socket=new Socket("127.0.0.1",6555);

DataOutputStream dos = new DataOutputStream(socket.getOutputStream());
DataInputStream din = new DataInputStream(socket.getInputStream());

System.out.print("Enter The Command: ");
str=s.nextLine();

dos.writeUTF(str);

System.out.println(din.readUTF());
} catch(IOException e) {
    System.out.println("Error");
    System.out.println(e);
}
}
}

```

OUTPUT

Client:

```

C:\Computer-Networks\6>java Client
Enter The Command: hostname

ALI-HUB

```

Server:

```

C:\Computer-Networks\6>java Server
Waiting For Client..
Connection Established..

```

RESULT