

**CONTENT BEYOND SYLLABUS**  
**IMPLEMENTATION OF REMOTE COMMAND EXECUTION (RCE)**

**AIM**

To implement Remote Command Execution (RCE).

**ALGORITHM**

**Client**

1. Establish a connection between the Client and Server.

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

2. Create instances for input and output streams.

Print Stream ps=new Print Stream(client.getOutputStream());

3. BufferedReaderbr=newBufferedReader(newInputStreamReader(System.in));

4. Enter the command in Client Window.

Send themessage to its output

str=br.readLine();

ps.println(str);

**Server**

1. Accept the connection request by the client.

ServerSocket server=new ServerSocket(6555);

Sockets=server.accept();

2. GettheIPaddressfromitsinputstream.

BufferedReaderbrl=newBufferedReader(newInputStreamReader(s.getInputStream()));

ip=brl.readLine();

3. During runtime execute the process

Runtime r=Runtime.getRuntime();

Process p=r.exec(str);

## **PROGRAM**

### **Client**

```
import java.io.*;
import java.net.*;
class clientRCE
{
    public static void main(String args[]) throws IOException
    {
        try
        {
            String str; Socket client=new Socket("127.0.0.1",6555);
            PrintStream ps=new PrintStream(client.getOutputStream());
            BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
            System.out.println("\t\t\tCLIENT WINDOW\n\n\t\tEnterTheCommand:");
            str=br.readLine();
            ps.println(str);
        }
        catch(IOException e)
        {
            System.out.println("Error"+e); }
    }
}
```

### **Server**

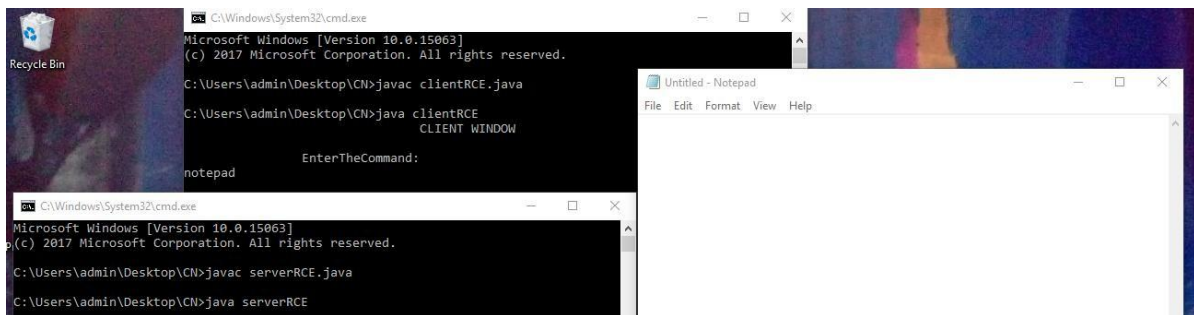
```
import java.io.*;
import java.net.*;
class serverRCE
{
    public static void main(String args[]) throws IOException
    {
        try
```

```

{
String str;
ServerSocket server=new ServerSocket(6555);
Socket s=server.accept();
BufferedReaderbr=new BufferedReader(new InputStreamReader(s.getInputStream()));
str=br.readLine();
Runtime r=Runtime.getRuntime();
Process p=r.exec(str);
}
catch(IOException e)
{
System.out.println("Error"+e);
}
}
}
}

```

## OUTPUT



## RESULT

Thus the implementation RCE is done & executed successfully.