**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.

PrintStream ps=new PrintStream(client.getOutputStream());

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

4. Enter the command in the Client Window. Send the message 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. BufferedReaderbr1=newBufferedReader(newInputStreamReader(s.getInputStream())); ip=br1.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);

PrintStreamps=new PrintStream(client.getOutputStream());

BufferedReaderbr=new BufferedReader(new InputStreamReader(System.in));

System.out.println("\t\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) {

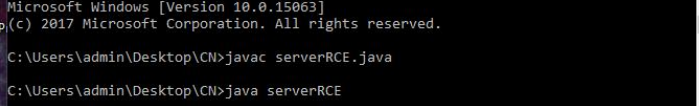
System.out.println("Error"+e);

}

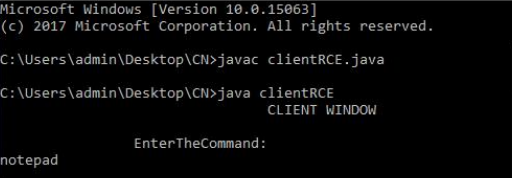
} }

**Output**

Server



Client



**Result**

Thus the implementation RCE is done & executed successfully.