

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 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. Get the IP address from its input stream.

```
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);
PrintStream ps=new PrintStream(client.getOutputStream());
BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
System.out.println("\t\t\tCLIENT WINDOW\n\n\t\tEnter The Command:");
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();
BufferedReader br=new BufferedReader(new InputStreamReader(s.getInputStream()));
str=br.readLine();

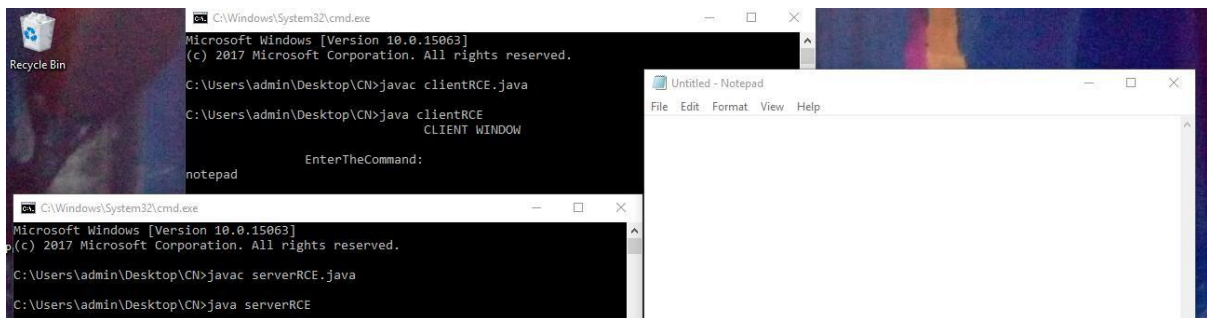
```

```

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.