## CONTENT BEYOND SYLLABUS

## IMPLEMENTATION OF REMOTE COMMAND EXECUTION (RCE)

## **AIM**

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## **ALGORITHM**

## **CLIENT SIDE**

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 SIDE

1. Accept the connection request by the client.

ServerSocket server=new ServerSocket(6555);

Sockets=server.accept();

2. Getthe IPaddressfromitsinputstream.

BufferedReader(newInputStreamReader(s.getInputStream()));

ip=br1.readLine();

3. During runtime execute the process

```
Runtime r=Runtime.getRuntime();
Process p=r.exec(str);
CLIENT PROGRAM
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 TheCommand:");
str=br.readLine();
ps.println(str);
}
catch(IOException e)
{
System.out.println("Error"+e); }
}
}
```

## **SERVER PROGRAM**

```
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**

C:\NetworkingPrograms>java serverRCE

C:\NetworkingPrograms>java clientRCE

# **CLIENT WINDOW**

EnterTheCommand:

# Notepad



# **RESULT**

Thus the implementation RCE is done & executed successfully.