CONTENT BEYOND SYLLABUS

IMPLEMENTATION OF REMOTE COMMAND EXECUTION (RCE)

AIM

To implement Remote Command Execution(RCE).

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.

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

- 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 SIDE

1. Accept the connection request by the client.

ServerSocket server=new ServerSocket(6555);

Sockets=server.accept();

2. Getthe IPaddressfromitsinputstream.

BufferedReaderbr1=newBufferedReader(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
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("CLIENT WINDOW\nEnter The Command:");
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
{
```

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

OUTPUT

```
Windows PowerShell  

Windows PowerShell  

Windows PowerShell  

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PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\kali-linux\home\superskywalker\Documents> javac clientRCE.java

PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\kali-linux\home\superskywalker\Documents> javac serverRCE.java

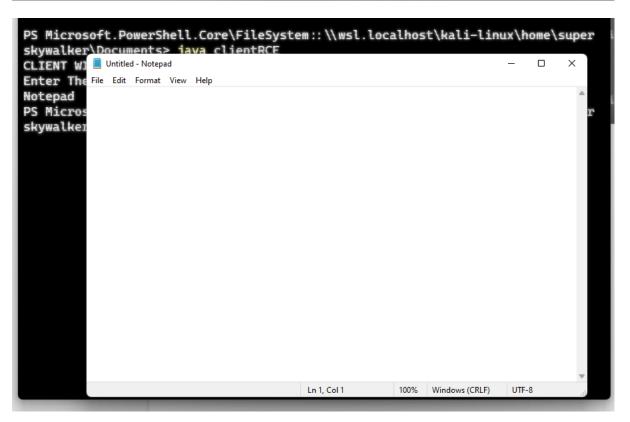
PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\kali-linux\home\superskywalker\Documents> java serverRCE

PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\kali-linux\home\superskywalker\Documents> java serverRCE

PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\kali-linux\home\superskywalker\Documents>
```

CLIENT WINDOW

```
PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\kali-linux\home\super skywalker\Documents> java clientRCE
CLIENT WINDOW
Enter The Command:
Notepad
PS Microsoft.PowerShell.Core\FileSystem::\\wsl.localhost\kali-linux\home\super skywalker\Documents>
```



RESULT

Thus the implementation RCE is done & executed successfully.