**DATE:14.10.21 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);

1. Create instances for input and output streams.

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

1. BufferedReaderbr=newBufferedReader(newInputStreamReader(System.in));
2. 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();

1. GettheIPaddressfromitsinputstream.

BufferedReaderbr1=newBufferedReader(newInputStreamReader(s.getInputStream())); ip=br1.readLine();

1. During runtime execute the process

Runtime r=Runtime.getRuntime();

Process p=r.exec(str);

# PROGRAM

**Client**

import java.io.\*; import java.net.\*; classclientRCE

{

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.\*; classserverRCE

{

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)

{

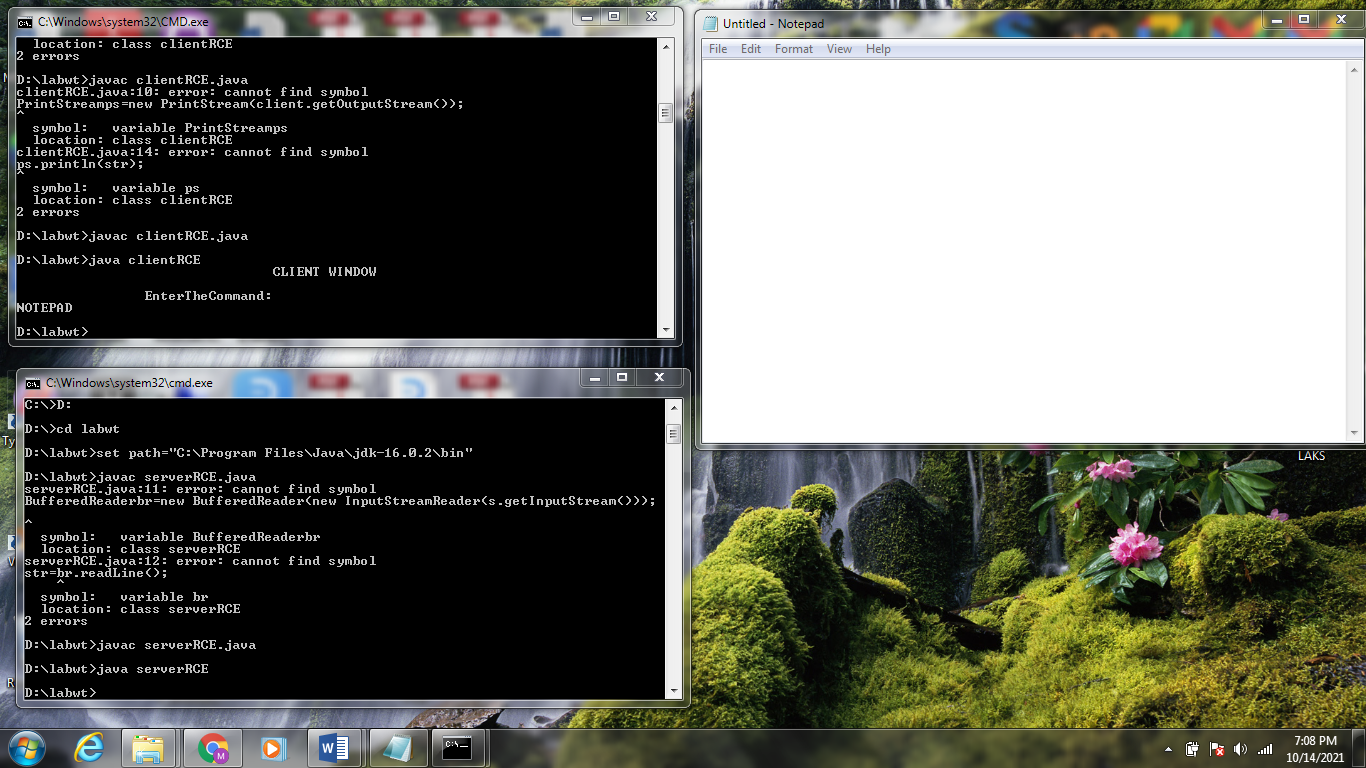
System.out.println("Error"+e);

}

}

}

# OUTPUT



# RESULT

Thus the implementation RCE is done & executed successfully.