

CSE PCC-CS692 L SEC B – COMPUTER NETWORKS LAB

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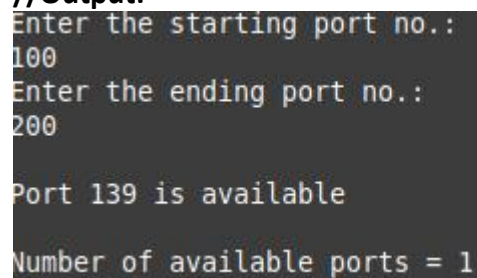
Section: B1

Assignment-3, Date: 02/03/2023

//Problem1:

```
import java.io.*;
import java.net.*;
import java.util.*;
public class port
{
    public static void main(String args[])
    {
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter the starting port no.: ");
        int start= sc.nextInt();
        System.out.println("Enter the ending port no.: ");
        int end=sc.nextInt();
        int count=0;
        System.out.println();
        for(int i=start;i<=end;i++)
        {
            try{
                Socket s=new Socket("localhost",i);
                System.out.println("Port "+i+" is available");
                count++;
            }
            catch(Exception e)
            {
                //System.out.println("Port "+i+" is not available");
            }
        }
        System.out.println();
        System.out.println("Number of available ports = "+count);
    }
}
```

//Output:

A screenshot of a terminal window showing the output of the Java program. The text is as follows:

```
Enter the starting port no.:
100
Enter the ending port no.:
200

Port 139 is available

Number of available ports = 1
```

//Problem 2

```
import java.net.*;
import java.io.*;
public class ping
{
    public static void main(String args[]){
        System.out.println("Pinging status");
        try{
            InetAddress IPA= InetAddress.getByName("localhost");
            System.out.println("Sending ping request to "+IPA);
            boolean status=IPA.isReachable(50000);
            if(status){
                System.out.println("Status:Host is reachable");
            }
            else{
                System.out.println("Status: Host is not reachable");
            }
        }
        catch(IOException e){
            System.out.println("Host does not exist");
        }
    }
}
```

//Output:

```
Pinging status
Sending ping request to localhost/127.0.0.1
Status:Host is reachable
```