**Networking Lab**

**Cyclesheet I**

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**Program 5:**

import java.io.\*;

import java.net.\*;

import java.util.\*;

class Sample4

{

public static void main(String args[])

{

try

{

System.out.println("enter your ip address");

Scanner sc=new Scanner(System.in);

String add=sc.nextLine();

String[] arr=add.split("\\.");

Integer a[]=new Integer[7];

for(int i=0;i<=3;i++)

{

a[i]=Integer.parseInt(arr[i]);

}

if(a[0]==127)

{

if(a[3]>=1 && a[3]<255)

System.out.println("Loopback address");

}

}

catch(Exception e)

{

System.out.println(e);

}

}

}

**output:**enter your ip address

127.0.0.1

Loopback address

**Program 6:**

import java.io.\*;

import java.net.\*;

import java.util.\*;

class Sample5

{

public static void main(String args[])

{

try

{

Process p=Runtime.getRuntime().exec(args[0]+" "+args[1]);

//Scanner sc=new Scanner(new InputStreamReader(p.getInputStream));

//String p1=sc.nextLine();

BufferedReader br=new BufferedReader(new InputStreamReader(p.getInputStream()));

String p1=br.readLine();

System.out.println(p1);

}catch(Exception e)

{

System.out.println(e);

}

}

}

**output:**java Sample5 ping www.vit.ac.in

PING vitwebsite-test.vit.ac.in (10.10.2.198) 56(84) bytes of data.

**Program 7:**

import java.io.\*;

import java.net.\*;

import java.util.\*;

class sample7

{

public static void main(String args[])

{

System.out.println("enter valid ipv4 or ipv6 address");

Scanner sc=new Scanner(System.in);

String add=sc.nextLine();

String[] arr=add.split(":");

if(arr.length == 4)

System.out.println("ipv4 address");

else

System.out.println("ipv6 address");

}

}

**OUTPUT:**

mock1@sjtg20site42:~$ java sample7

enter valid ipv4 or ipv6 address

FEDC:BA98:7654:3210:FEDC:BA98:7654:3210

ipv6 address

**Program 8:**

import java.io.\*;

import java.net.\*;

import java.util.\*;

class sample8

{

public static void main(String args[])throws IOException

{

Enumeration obj = NetworkInterface.getNetworkInterfaces();

while(obj.hasMoreElements())

{

System.out.println(obj.nextElement());

}

}

}

**output:**

mock1@sjtg20site42:~$ java sample8

name:eth0 (eth0)

name:lo (lo)

**Program 9:**

import java.net.\*;

import java.io.\*;

public class sample9 {

public static void main (String args[])

{

try {

URL u = new URL("https://academics.vit.ac.in/student/stud\_login.asp");

InputStream in = u.openStream();

in = new BufferedInputStream(in);

Reader r = new InputStreamReader(in);

int c;

while ((c = r.read()) != -1)

{

System.out.print((char) c);

}

}

catch (MalformedURLException ex)

{

System.err.println(args[0] + " is not a parseable URL");

}

catch (IOException ex)

{

System.err.println(ex);

}

System.out.println();

System.exit(0);

}

}

**output:**

............................................................

&nbsp;&nbsp;

<!--<input type="button" value="Forgot Password ?" class="submit3" onclick="modalWin(); return false;" tabindex="1">-->

<input type="button" value="Forgot Password ?" class="submit3" onclick="fgtpswd\_popup(); return false;" tabindex="1">

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<b><font color=red>\* Note:</font></b>

<ul>

<li>Password is <b>Case Sensitive</b>.</li>

<li><a href="#" onclick="popup2('https://academics.vit.ac.in/files/password\_instruction.html')"><font color=blue><b>Password Guidelines</b></font></a></b></font></li>

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**Program 10:**

import java.net.\*;

import java.io.\*;

public class sample10 {

public static void main (String args[]) {

for (int i = 0; i < args.length; i++) {

try {

URL u = new URL(args[i]);

InputStream in = u.openStream();

in = new BufferedInputStream(in);

Reader r = new InputStreamReader(in);

int c;

while ((c = r.read()) != -1)

{

System.out.print((char) c);

}

}

catch (MalformedURLException ex)

{

System.err.println(args[0] + " is not a parseable URL");

}

catch (IOException ex)

{

System.err.println(ex);

}

System.out.println();

}

System.exit(0);

}

}

**OUTPUT:**

......................................................

&nbsp;&nbsp;

<!--<input type="button" value="Forgot Password ?" class="submit3" onclick="modalWin(); return false;" tabindex="1">-->

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**Program 11:**

import java.io.\*;

import java.util.\*;

import java.net.\*;

class sample11

{

public static void main(String args[])throws Exception

{

System.out.println("enter url!");

Scanner sc = new Scanner(System.in);

String s = sc.next();

String en = URLEncoder.encode(s , "UTF-8");

//public static String encode(s);

//public static String encode(String s, String encoding) throws UnsupportedEncodingException

System.out.println("encoded url : " + en);

String de = URLDecoder.decode(en , "UTF-8");

System.out.println("decoded url : " + de);

}

}

**OUTPUT:**

mock1@sjtg20site42:~$ java sample11

enter url!

www.vit.ac.in/hello/world

encoded url : www.vit.ac.in%2Fhello%2Fworld

decoded url : www.vit.ac.in/hello/world