1. Write a java program to print the address of [www.vit.ac.in](http://www.vit.ac.in).

import java.util.\*;

import java.net.\*;

class one{

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

{

try{

System.out.println("\n1.");

}

catch(Exception e)

{

System.out.println(e);}

}

}

2.Write a java program to print all the addresses of [www.microsoft.com](http://www.microsoft.com/).

import java.util.\*;

import java.net.\*;

class two{

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

{

try{

System.out.println("\n2.");

InetAddress ia[] = InetAddress.getAllByName("www.microsoft.com");

for(int k=0;k<ia.length;k++)

{

System.out.println(ia[k].getHostAddress());

}

}

catch(Exception e)

{

System.out.println(e);}

}

}

3.Write a java program to print the address of a local machine.

import java.util.\*;

import java.net.\*;

class three{

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

{

try{

System.out.println("\n3.");

InetAddress in = InetAddress.getLocalHost();

System.out.println(in);

}

catch(Exception e)

{

System.out.println(e);}

}

}

4. Write a java program to find the hostname, given the IP address.

import java.util.\*;

import java.net.\*;

class four{

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

{

try{

System.out.println("\n4.");

InetAddress ino = InetAddress.getByName("10.10.2.198");

System.out.println(ino.getHostName());

}

catch(Exception e)

{

System.out.println(e);}

}

}

5. Write a java program to check whether the entered IP address is loop-back or not.

import java.net.\*;

public class pg5 {

public static void main(String[] argv) throws Exception {

InetAddress address = InetAddress.getByName("localhost");

System.out.println("Name: " + address.getHostName());

System.out.println("Addr: " + address.getHostAddress());

System.out.println(address.isLoopbackAddress());

}

}

6. Write a java program to check whether a host is alive (or is it reachable) or not.

import java.net.\*;

public class pg6 {

public static void main(String[] argv) throws Exception {

InetAddress address = InetAddress.getByName("localhost");

System.out.println("Name: " + address.getHostName());

System.out.println("Addr: " + address.getHostAddress());

System.out.println(address.isReachable(1000));

}

}

7. Write a java program to check whether the entered IP address is version 4 or 6.

import java.net.\*;

public class pg7 {

public static void main(String[] argv) throws Exception {

String ip="2001:0db8:0a0b:12f0:0000:0000:0000:0001";

InetAddress address = InetAddress.getByName(ip);

if (address instanceof Inet6Address) {

System.out.println("It's ipv6");

} else if (address instanceof Inet4Address) {

// It's ipv4

System.out.println("It's ipv4");

}

}

}

8. Write a java program to list all the network interfaces

import java.io.\*;

import java.net.\*;

import java.util.\*;

class pg8

{

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

{

Enumeration e=NetworkInterface.getNetworkInterfaces();

while(e.hasMoreElements())

{

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

}

}

}

9. Write a java program to retrieve data from your ffcs login.

import java.io.\*;

import java.net.\*;

class DownloadPage {

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

String url\_open ="https://academics.vit.ac.in/student/stud\_login.asp";

java.awt.Desktop.getDesktop().browse(java.net.URI.create(url\_open));

}

}

10. Write a java program to download a webpage.

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.FileWriter;

import java.io.InputStreamReader;

import java.net.\*;

public class pg9 {

public static void main(String[] args)

throws Exception {

URL url = new URL("https://academics.vit.ac.in/");

BufferedReader reader = new BufferedReader

(new InputStreamReader(url.openStream()));

BufferedWriter writer = new BufferedWriter

(new FileWriter("Data.html"));

String line;

while ((line = reader.readLine()) != null) {

System.out.println(line);

writer.write(line);

writer.newLine();

}

reader.close();

writer.close();

}

}

11. Write a java program to encode and decode [www.vit.ac.in](http://www.vit.ac.in/).

import java.io.\*;

import java.net.\*;

class eleven

{

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

{

String b=URLEncoder.encode("\*()&^https://www.vit.ac.in","UTF-8");

System.out.println(b);

String c=URLDecoder.decode(b,"UTF-8");

System.out.println(c);

}

}

12. Write a java program to resolve http://www.example.com/images/logo.png

import java.net.URL;  
import java.io.\*;  
import javax.imageio.ImageIO;  
import java.awt.image.BufferedImage;  
  
public class ResolveRelativeURL {  
public static void main (String[] args) throws java.net.MalformedURLException {  
URL relativeURL, baseURL;  
baseURL = new URL ("<http://www.mkyong.com/>");  
relativeURL = new URL ( baseURL, "./image/mypic.jpg");  
System.out.println ( relativeURL.toExternalForm ());  
BufferedImage image = null;  
try {  
URL url = new URL( relativeURL.toExternalForm ().toString());  
image = ImageIO.read(url);  
ImageIO.write(image, "jpg",new File("/home/mock3/download.jpg"));  
} catch (Exception e) {  
e.printStackTrace();  
}  
System.out.println("Done");  
}  
}

OR

import java.net.\*;

import java.io.\*;

import javax.imageio.ImageIO;

import java.awt.image.BufferedImage;

class res

{

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

{

URI u=new URI("https://academics.vit.ac.in/");

URI u1=new URI("/images/vit\_logo6.jpg");

URI uu=u.resolve(u1);

URL ux=uu.toURL();

System.out.println(uu);

BufferedImage image = null;

image = ImageIO.read(ux);

ImageIO.write(image, "jpg",new File("C:/Users/Dell/Downloads/download.jpg"));

System.out.println("Done");

}

}