**InetAddress Class**

**import java.net.\*;**

**class InetAddressDemo**

**{**

**public static void main(String[] args) throws UnknownHostException**

**{**

**int i;**

**InetAddress Addr = InetAddress.getLocalHost();**

**System.out.println(Addr);**

**InetAddress Address = InetAddress.getByName("google.com");**

**System.out.println(Address);**

**InetAddress Sw[] = InetAddress.getAllByName("www.nba.com");**

**for(i=0;i<Sw.length;i++)**

**{**

**System.out.println(Sw[i]);**

**}**

**System.out.println("Host Name : " +Address.getHostName());**

**System.out.println("IP Address : " +Address.getHostAddress());**

**System.out.println("Is ip1 == ip2 : " +Addr.equals(Address));**

**System.out.println("Is Multicast address : " +Addr.isMulticastAddress());**

**System.out.println("Is site local address : " +Addr.isSiteLocalAddress());**

**}**

**}**

**Output:**

**F:\>cd pract**

**F:\pract>javac InetAddressDemo.java**

**F:\pract>java InetAddressDemo**

**MINAL-PC/192.168.29.1**

**google.com/142.250.192.78**

**www.nba.com/184.29.75.107**

**Host Name : google.com**

**IP Address : 142.250.192.78**

**Is ip1 == ip2 : false**

**Is Multicast address : false**

**Is site local address : true**

**F:\pract>**

**URL Class**

**import java.util.\*;**

**import java.net.URL;**

**import java.net.MalformedURLException;**

**class URLDemo**

**{**

**public static void main(String[] args) throws MalformedURLException**

**{**

**URL url = new URL("http://www.google.com");**

**System.out.println("Protolcol : "+url.getProtocol());**

**System.out.println("Port : "+url.getPort());**

**System.out.println("Host : "+url.getHost());**

**System.out.println("File : "+url.getFile());**

**System.out.println("Ext : "+url.toExternalForm());**

**}**

**}**

**OUTPUT**

**F:\pract>javac URLDemo.java**

**F:\pract>java URLDemo**

**Protolcol : http**

**Port : -1**

**Host : www.google.com**

**File :**

**Ext : http://www.google.com**

**F:\pract>**

**URLConnection**

**import java.net.\*;**

**import java.io.\*;**

**import java.util.Date;**

**class UCDemo**

**{**

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

**{**

**int c;**

**URL hp = new URL("http://www.google.com");**

**URLConnection hpcon = hp.openConnection();**

**//get Date**

**long d = hpcon.getDate();**

**if(d==0)**

**{**

**System.out.println("No date information");**

**}**

**else**

**{**

**System.out.println("Date: "+new Date(d));**

**}**

**//get content type**

**System.out.println("Content type : " +hpcon.getContentType());**

**//get expiration date**

**d = hpcon.getExpiration();**

**if(d==0)**

**{**

**System.out.println("No expiration date information");**

**}**

**else**

**{**

**System.out.println("Expires: "+new Date(d));**

**}**

**//get last-modified date**

**d = hpcon.getLastModified();**

**if(d==0)**

**{**

**System.out.println("No last modified date information");**

**}**

**else**

**{**

**System.out.println("Expires: "+new Date(d));**

**}**

**//get content length date**

**int len = hpcon.getContentLength();**

**if(len==0)**

**{**

**System.out.println("Content length unavailable");**

**}**

**else**

**{**

**System.out.println("Content length: "+len);**

**}**

**}**

**}**

**OUTPUT**

**F:\pract>javac UCDemo.java**

**F:\pract>java UCDemo**

**Date: Sat May 07 19:28:14 IST 2022**

**Content type : text/html; charset=ISO-8859-1**

**No expiration date information**

**No last modified date information**

**Content length: -1**