

# 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 URLEDemo
{
    public static void main(String[]
args) throws MalformedURLException
    {
        URL url = new
URL("http://www.google.com");

        System.out.println("Protocol :
"+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 URLEDemo.java

F:\pract>java URLEDemo

Protocol : 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