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Batch : B

Aim : Write a program for DNS lookup. Given an IP address input, it should return URL and vice versa.

```
import java.util.*;
```

```
import java.net.*;
```

```
public class IPdemo{
```

```
    public static void main(String args[]){
```

```
        String host;
```

```
        Scanner ch=new Scanner(System.in);
```

```
        System.out.println("\n1-Enter the Host Name\n2-Enter the Host Address\nEnter your  
choice: ");
```

```
        int choice= ch.nextInt();
```

```
        if(choice==1){
```

```
            Scanner input=new Scanner(System.in);
```

```
            System.out.println("Enter the Host Name : ");
```

```
            host=input.nextLine();
```

```
            try{
```

```
                InetAddress address = InetAddress.getByName(host);
```

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

```
                System.out.println("Host name : " + address.getHostName());
```

```
                System.out.println("Host name and IP address: " + address.toString());
```

```
            }
```

```
            catch(UnknownHostException ex){
```

```
                System.out.println("Host Not found"+ host);
```

```
            }
```

```
        }
```

```
    else{
```

```

Scanner input=new Scanner(System.in);

System.out.println("Enter the Host IP : ");

host=input.nextLine();

try{

    InetAddress address = InetAddress.getByName(host);

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

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

    System.out.println("Host name and IP address: " + address.toString());

}

catch(UnknownHostException ex){

    System.out.println("IP not found "+host);

}

}

}

}

```

OUTPUT

```

C:\Windows\System32\cmd.e
Microsoft Windows [Version 10.0.22623.1180]
(c) Microsoft Corporation. All rights reserved.

E:\3rd-year\sem 1\CN>javac IPdemo.java

E:\3rd-year\sem 1\CN>java IPdemo.java

1-Enter the Host Name
2-Enter the Host Address
Enter your choice:
1
Enter the Host Name :
google.com
IP address: 142.250.183.14
Host name : google.com
Host name and IP address: google.com/142.250.183.14

E:\3rd-year\sem 1\CN>java IPdemo.java

1-Enter the Host Name
2-Enter the Host Address
Enter your choice:
2
Enter the Host IP :
157.240.22.35
Host name : edge-star-mini-shv-01-sjc3.facebook.com
IP address: 157.240.22.35
Host name and IP address: edge-star-mini-shv-01-sjc3.facebook.com/157.240.22.35

E:\3rd-year\sem 1\CN>SA

```