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Lab Assignment 2

PYTHON:

```python
1. import socket as soc

   hostName = soc.gethostname()
   ip = soc.gethostbyname(hostName)
   print("host name:",hostName)
   print("ip:",ip)

   Output:
   host name: 4f3dadac3584
   ip: 172.28.0.2

2. import socket as soc

   hostRemote = "google.com"
   ipRemote = soc.gethostbyname(hostRemote)
   print("ipRemote:",ipRemote)

   Output:
   ipRemote: 142.250.141.113
```

JAVA:

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

   public class IP {

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

     InetAddress ip = InetAddress.getLocalHost();
     String host =  ip.getHostName();
     System.out.println("Host: " + host);
    System.out.println("IP Address: " +ip);

}

}

Output:
Host: IT2-12-PC
```

```
IP Address: IT2-12-PC/172.16.3.72


4. import java.net.*;

   public class IPremote{
    public static void main(String[] args) throws Exception{
        String hostRemote = "google.com";
        InetAddress ip = InetAddress.getByName(hostRemote);
        System.out.println("IP remote: " + ip);
    }
}



Output:
IP remote: google.com/142.250.195.174



5. import java.net.*;

   public class IPping{
    public static void main(String[] args) throws Exception{
        String[] ip = {"127.0.0.1", "133.192.31.42"};
        InetAddress[] IP = new InetAddress[2];
        for(int i=0; i<2; i++)
            IP[i] = InetAddress.getByName(ip[i]);

        for(int i=0; i<2; i++){
            if(IP[i].isReachable(5000))
                System.out.println("IP: " + ip[i] + " Reachable");
            else
                System.out.println("IP: " + ip[i] + " Not Reachable");
        }
    }
}



Output:
IP: 127.0.0.1 Reachable
IP: 133.192.31.42 Not Reachable
```