Exp No: 3	PROGRAM FOR PING
Date:	
AIM	
<u>ALGORITHM</u>	

CODE

```
import java.io.*;
import java.net.*;
import java.lang.*;
import java.util.Arrays;
public class Main {
  public static void sendPingReq(String ipAdrr, int timeout) throws
UnknownHostException, IOException {
     InetAddress ip = InetAddress.getByName(ipAdrr);
     System.out.println("Sending ping request to " + ipAdrr);
     if (ip.isReachable(timeout)) {
       System.out.println("Host is reachable");
       System.out.println("\nDetails: ");
       System.out.println("Address (+ 256. since it is unsigned bytes): " +
Arrays.toString(ip.getAddress()));
       System.out.println("Host Address: " + ip.getHostAddress());
       System.out.println("isAnyLocalAddress: " +ip.isAnyLocalAddress());
       System.out.println("HashCode of the ip addr (can be negative): " + ip.hashCode());
     } else {
       System.out.println("Can't reach the host!");
  }
  public static void main(String[] args) throws IllegalArgumentException,
NumberFormatException {
     String ipAddress;
     int timeout:
     if (args.length != 2) {
       throw new IllegalArgumentException("Two arguments are required. IP Address and
Timeout");
     ipAddress = args[0];
     try {
       timeout = Integer.parseInt(args[1]);
     } catch(NumberFormatException e) {
       throw new NumberFormatException("Timeout should be a number");
     }
     try {
       sendPingReq(ipAddress, timeout);
     } catch(UnknownHostException e) {
       System.out.println("IP address of the host could not be determined");
```

```
} catch(IOException e) {
        System.out.println("Something went wrong!");
    }
}
```

OUTPUT

```
Computer-Networks\3>java Main 1.1.1.1 5000
Sending ping request to 1.1.1.1
Host is reachable

Details:
Address (+ 256. since it is unsigned bytes): [1, 1, 1, 1]
Host Address: 1.1.1.1
isAnyLocalAddress: false
HashCode of the ip addr (can be negative): 16843009
```

RESULT