```
import java.net.*;
public class IPCharacteristics {
  public static void main(String[] args) {
    try {
      InetAddress address =
InetAddress.getByName("FF01:0:0:0:a49c:78ea:c760:d28a%3");
      if (address.isAnyLocalAddress()) {
        System.out.println(address + " is a wildcard address.");
      if (address.isLoopbackAddress()) {
        System.out.println(address + " is loopback address.");
      }
      if (address.isLinkLocalAddress()) {
        System.out.println(address + " is a link-local address.");
      } else if (address.isSiteLocalAddress()) {
        System.out.println(address + " is a site-local address.");
      } else {
        System.out.println(address + " is a global address.");
      if (address.isMulticastAddress()) {
        if (address.isMCGlobal()) {
          System.out.println(address + " is a global multicast
address.");
        } else if (address.isMCOrgLocal()) {
          System.out.println(address
           + " is an organization wide multicast address.");
        } else if (address.isMCSiteLocal()) {
          {\tt System.out.println} \, ({\tt address} \, + \, {\tt "} \, \, {\tt is} \, \, {\tt a} \, \, {\tt site} \, \, {\tt wide} \, \, {\tt multicast} \, \,
address.");
         } else if (address.isMCLinkLocal()) {
          System.out.println(address + " is a subnet wide multicast
address.");
        } else if (address.isMCNodeLocal()) {
          System.out.println(address
           + " is an interface-local multicast address.");
          System.out.println(address + " is an unknown multicast
address type.");
      } else {
        System.out.println(address + " is a unicast address.");
    } catch (UnknownHostException ex) {
      System.err.println("Could not resolve ");
  }
}
```