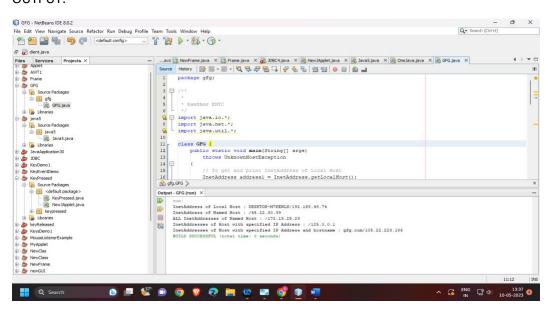
```
JAVA EXPERIMENT NO 6
a) InetAddress – Factory Methods:
CODE
package gfg;
import java.io.*;
import java.net.*;
import java.util.*;
class GFG {
  public static void main(String[] args)
    throws UnknownHostException
  {
    InetAddress address1 = InetAddress.getLocalHost();
    System.out.println("InetAddress of Local Host : + address1);
    InetAddress address2
      = InetAddress.getByName("45.22.30.39");
    System.out.println("InetAddress of Named Host: "+ address2);
    InetAddress address3[]
      = InetAddress.getAllByName("172.19.25.29");
    for (int i = 0; i < address3.length; i++) {
      System.out.println(
        "ALL InetAddresses of Named Host: "+ address3[i]);
    }
    byte IPAddress[] = { 125, 0, 0, 1 };
    InetAddress address4
```

OUTPUT:



```
b) InetAddress — Instance Methods:
CODE:
package gfg;
import java.io.*;
import java.net.*;
import java.util.*;
class GFG {
  public static void main(String[] args)
    throws UnknownHostException
  {
    InetAddress address1 = InetAddress.getByName("45.22.30.39");
    InetAddress address2 = InetAddress.getByName("45.22.30.39");
    InetAddress address3= InetAddress.getByName("172.19.25.29");
   // true, as clearly seen above
    System.out.println(
      "Is Address-1 equals to Address-2?:"
      + address1.equals(address2));
    // false
    System.out.println(
      "Is Address-1 equals to Address-3?:"
      + address1.equals(address3));
    // returns IP address
    System.out.println("IP Address : "+ address1.getHostAddress());
    // returns host name,
    // which is same as IP
    // address in this case
```

```
System.out.println(
      "Host Name for this IP Address: "
      + address1.getHostName());
    // returns address in bytes
    System.out.println("IP Address in bytes: "
              + address1.getAddress());
    // false, as the given site
    // has only one server
    System.out.println("Is this Address Multicast?:"
              + address1.isMulticastAddress());
    System.out.println("Address in string form: "
              + address1.toString());
    // returns fully qualified
    // domain name for this IP address.
    System.out.println(
      "Fully qualified domain name for this IP address:"
      + address1.getCanonicalHostName());
   System.out.println("Hashcode for this IP address: "
              + address1.hashCode());
        System.out.println("Is the InetAddress an unpredictable address?: "
+ address1.isAnyLocalAddress());
```

}

}

OUTPUT:

