OBJECT-6

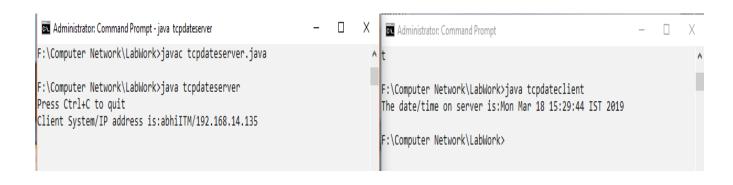## Program using TCP Sockets Date and Time Server.

tcpdateserver.java

```java
import java.net.*;
import java.io.*;
import java.util.*;
class tcpdateserver
{
    public static void main(String args[])
    {
        ServerSocket ss=null;
        Socket cs;
        PrintStream ps;
        BufferedReader dis;
        String inet;
        try
        {
            ss= new ServerSocket(4444);
            System.out.println("Press Ctrl+C to quit");
            while(true)
            {
                cs=ss.accept();
                ps=new PrintStream(cs.getOutputStream());
                Date d=new Date();
                ps.println(d);
                dis=new BufferedReader(new
InputStreamReader(cs.getInputStream()));
                inet=dis.readLine();
                System.out.println("Client System/IP
address is:"+inet);
                ps.close();
                dis.close();
            }
        }
                catch(IOException e)
```

```
                        {
                                System.out.println("The exception
is:"+e);
                        }
        }


}
```

tcpdateclient.java

```
import java.net.*;
import java.io.*;
class tcpdateclient{
        public static void main(String args[])
        {
                Socket soc;
                BufferedReader dis;
                String sdate;
                PrintStream ps;
                try
                {
                        InetAddress ia =
InetAddress.getLocalHost();
                        if(args.length==0)
                        {
                                soc=new
Socket(InetAddress.getLocalHost(),4444);
                        }
                        else
                        {
                         soc=new
Socket(InetAddress.getByName(args[0]),4444);
                        }
                        dis=new BufferedReader(new
InputStreamReader(soc.getInputStream()));
                        sdate=dis.readLine();
                        System.out.println("The date/time on
server is:"+sdate);
```

```
                    ps=new PrintStream(soc.getOutputStream());
                    ps.println(ia);
                    ps.close();
            }
                    catch(IOException e)
                    {
                        System.out.println("THE EXCEPTION is:
"+e);

                    }
            }
        }
```

```
Administrator: Command Prompt - java tcpdateserver                    —   ☐   X

F:\Computer Network\LabWork>javac tcpdateserver.java

F:\Computer Network\LabWork>java tcpdateserver
Press Ctrl+C to quit
Client System/IP address is:abhiITM/192.168.14.135
```

```
Administrator: Command Prompt                    —   ☐   X
t

F:\Computer Network\LabWork>java tcpdateclient
The date/time on server is:Mon Mar 18 15:29:44 IST 2019

F:\Computer Network\LabWork>
```