

Expt. no. 01

Aim:

Program to print Date & time by server.

Algorithm:

\* Server:

1. Create instance for Socket & ServerSocket class.
2. Use port 8080 for TCP.
3. Make PrintStream object connect to Output Stream using Socket.
4. Create an instance of Date class & write it into Socket.
5. Get IP address of client using Socket & getInetAddress().

\* Client:

1. Create instance for Socket class with port number 8080.
2. Create an object of DataInputStream & make it to get data from Server through Socket.
3. Read Date object
4. Print Obtained date.

Program :

i. dateserver.java

```
import java.io.*;
```

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

```
import java.util.*;
```

```
class dateserver {
```

```
    public static void main (String args[]) {
```

```
        ServerSocket ss;
```

```
        Socket s;
```

```
        PrintStream ps;
```

```
        DataInputStream di;
```

```
        String msg;
```

```
        try {
```

```
            ss = new ServerSocket
```

```
            ss = new ServerSocket (8080);
```

```
            while (true) {
```

```
                s = ss.accept();
```

```
                ps = new PrintStream (s.getOutputStream());
```

```
                Data d = new Data();
```

```
                ps.println (d);
```

```
                ps.close();
```

```
            }
```

```
        } catch (IOException e) {
```

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

```
        }
```



ii. dateclint.java :

import java.io.\*;

import java.net.\*;

class dateclint {

Public static void main (String args[]) {

Socket soc;

DataInputStream dis;

String sdate;

try {

inetAddress ia = inetAddress.getLocalHost();

soc = new Socket(ia, 8080);

dis = new DataInputStream (soc.getInputStream());

sdate = dis.readLine();

System.out.println ("The date is " + sdate);

}

catch (IOException e) {

System.out.println ("The exception: " + e);

}

}

}

```
C:\Windows\System32\cmd.exe - java dateserver
Microsoft Windows [Version 10.0.18363.1256]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Vinoth\Desktop\Sem6\NetworkingLab>java dateserver
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.1256]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Vinoth\Desktop\Sem6\NetworkingLab>java dateclient
The data in the server is: Tue Mar 02 08:23:06 IST 2021

C:\Users\Vinoth\Desktop\Sem6\NetworkingLab>
```



Ques 11:

Thus, The Current time & date is obtained from  
Server.