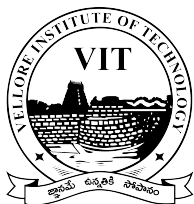

CN LAB 2 (DATE SERVER AND CLIENT)

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Date	03rd February 2021



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Question :

Implement Data Server and client using Java Socket Programming.

DateServer.java

```
1 import java.io.IOException;
2 import java.io.PrintWriter;
3 import java.net.ServerSocket;
4 import java.net.Socket;
5 import java.util.Date;
6
7 /**
8  * A simple TCP server. When a client connects, it sends the
9  * client the current
10  * datetime, then closes the connection. This is arguably
11  * the simplest server
12  * you can write. Beware though that a client has to be
13  * completely served its
14  * date before the server will be able to handle another
15  * client.
16  */
17
18 public class DateServer {
19     public static void main(String[] args) throws
20         IOException {
21         // listening to the port used
22         try (var listener = new ServerSocket(59768)) {
```

```

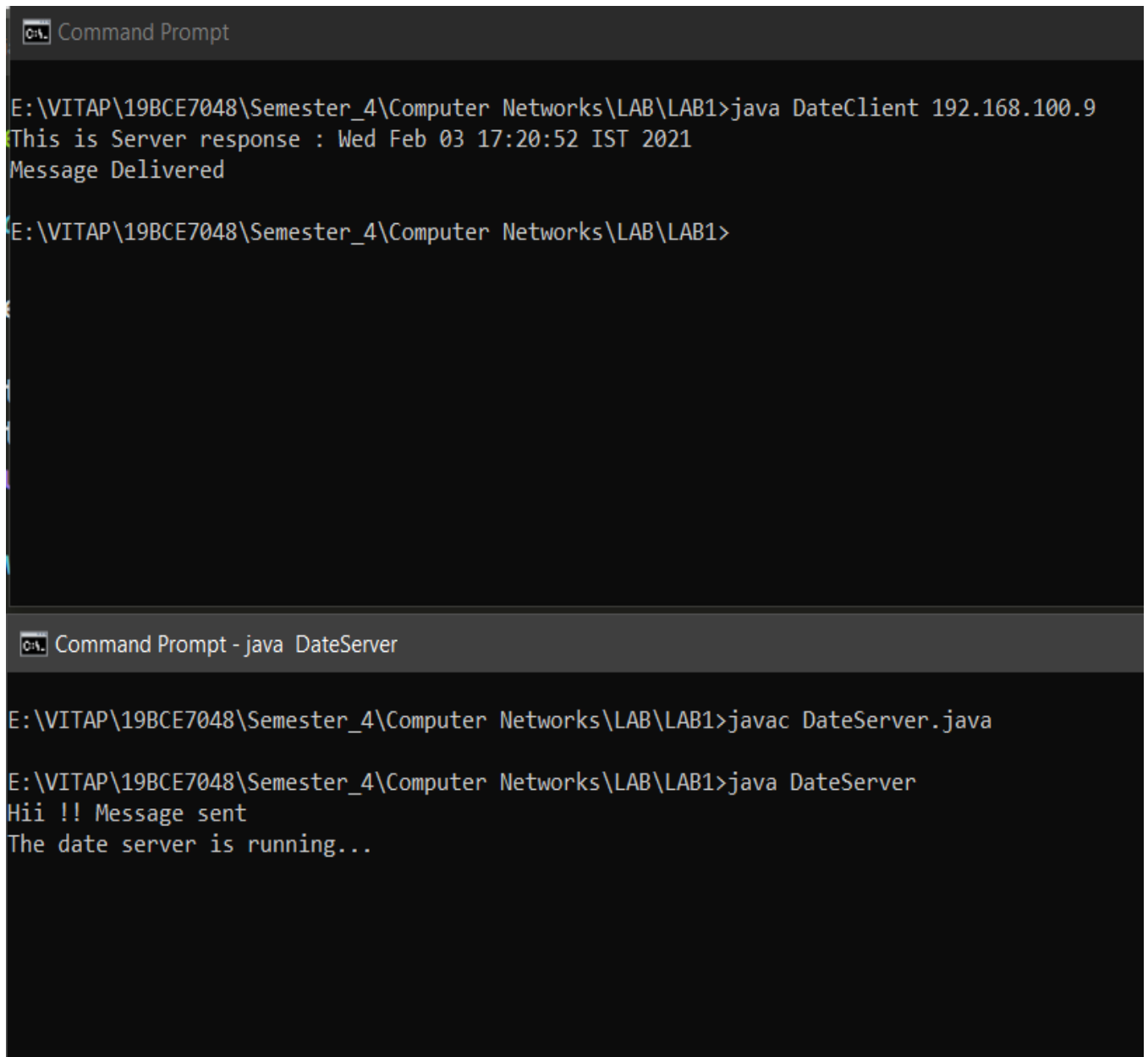
18         System.out.println("Hii !! Message sent");
19         System.out.println("The date server is
           running...");
20         while (true) {
21             // accept the request from socket
22             try (var socket = listener.accept()) {
23                 var out = new
                     PrintWriter(socket.getOutputStream(),
                                 true);
24                 // get the date and convert that to string
                     and send it to socket used
25                 out.println(new Date().toString());
26             } catch (Exception ex) {
27                 // print all the exceptions if any
28                 ex.printStackTrace();
29             }
30         }
31     } catch (Exception e) {
32         e.printStackTrace();
33     }
34 }
35 }
36
37 // IP address is : 192.168.100.9
38 // Port used is : 59768

```

```
1 import java.util.Scanner;
2 import java.net.Socket;
3 import java.io.IOException;
4
5 /**
6  * A command line client for the date server. Requires the
7   * IP address of the
8   * server as the sole argument. Exits after printing the
9   * response.
10  */
11 public class DateClient {
12     public static void main(String[] args) throws
13         IOException {
14         if (args.length != 1) {
15             System.err.println("IP address not found, Pass
16                 the server IP as the sole command line
17                 argument..");
18             return;
19         }
20         // creating socket with IP address and port number
21         // as arguments
22         var socket = new Socket(args[0], 59768);
23
24         // for getting input as an ordered sequence of bytes
```

```
20     var in = new Scanner(socket.getInputStream());
21
22     // getting input from server and printing date
23     System.out.println("This is Server response : " + in
24         .nextLine());
25     System.out.println("Message Delivered");
26 }
27
28 // IP address is : 192.168.100.9
29 // Port used is : 59768
```

Output for above program :



```
Command Prompt

E:\VITAP\19BCE7048\Semester_4\Computer Networks\LAB\LAB1>java DateClient 192.168.100.9
This is Server response : Wed Feb 03 17:20:52 IST 2021
Message Delivered

E:\VITAP\19BCE7048\Semester_4\Computer Networks\LAB\LAB1>

Command Prompt - java DateServer

E:\VITAP\19BCE7048\Semester_4\Computer Networks\LAB\LAB1>javac DateServer.java

E:\VITAP\19BCE7048\Semester_4\Computer Networks\LAB\LAB1>java DateServer
Hii !! Message sent
The date server is running...
```