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Subject:- Advanced Java Programming Lab

Experiment no.8

Aim:- Implementation of Client-Server using UDP.

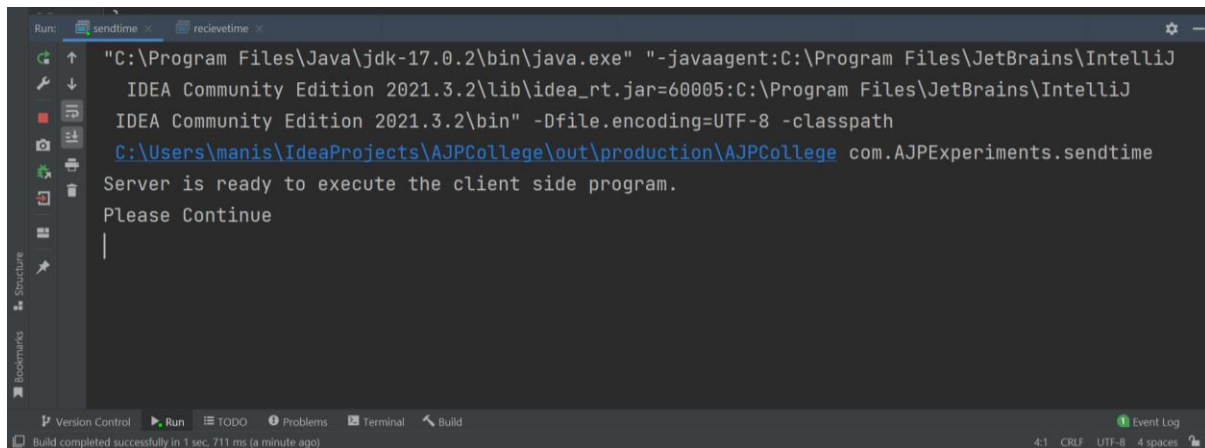
Program A) SERVER SIDE PRORGAM:-

Input:-

```
package com.AJPExperiments;
import java.net.*;
import java.util.Date;

public class sendtime {
    public static void main(String[] args) throws Exception{
        DatagramSocket b = new DatagramSocket();
        InetAddress address= InetAddress.getLocalHost();
        System.out.println("Server is ready to execute the client side program.");
        System.out.println("Please Continue");
        while (true){
            Thread.sleep(5000);
            Date currentDate = new Date();
            String s1 = currentDate.toString();
            byte arr[]=s1.getBytes();
            DatagramPacket dpack = new DatagramPacket(arr, arr.length,address,2000);
            b.send(dpack);
        }
    }
}
```

Output:-



Program B) CLIENT SIDE PROGRAM:-

Input:-

```
package com.AJPExperiments;
import java.net.*;
import java.io.*;
```

```
public class recievetime {
    public static void main(String[] args) throws SocketException, IOException{
        DatagramSocket b = new DatagramSocket(2000);
        DatagramPacket a;
        for (int i = 0; i<9; i++){
            byte arr1[]=new byte[100];
            a = new DatagramPacket(arr1, arr1.length);
            b.receive(a);
            byte arr2[] = a.getData();
            String str = new String(arr2);
            System.out.println(str);
        }
    }
}
```

Output:-

AJP EXPERIMENT NO.8

```

C:\Users\manis\IdeaProjects\AJPCollege\out\production\AJPCollege com.AJPExperiments.recievetime
Sun Nov 20 13:56:38 IST 2022
Sun Nov 20 13:56:43 IST 2022
Sun Nov 20 13:56:48 IST 2022
Sun Nov 20 13:56:53 IST 2022
Sun Nov 20 13:56:58 IST 2022
Sun Nov 20 13:57:03 IST 2022
Sun Nov 20 13:57:08 IST 2022
Sun Nov 20 13:57:13 IST 2022
Sun Nov 20 13:57:18 IST 2022

Process finished with exit code 0
  
```

Practical Performance (4)	Writeup & Oral (4)	Attendance (2)	Total (10)