Name: Bramha Nimbalkar

Roll no: 7

Srn: 202100381

## **ASSIGMENT 8**

Socket Programming for UDP Client, UDP Server.

#### Client

```
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;

public class UDPClient {
    public static void main(String[] args) {
        try {
            DatagramSocket socket = new DatagramSocket();

            String message = "Hello, UDP Server!";
            byte[] sendData = message.getBytes();
            InetAddress serverAddress = InetAddress.getByName("localhost");

// Change to the server's IP address if not local

            DatagramPacket sendPacket = new DatagramPacket(sendData,
sendData.length, serverAddress, 9876);
            socket.send(sendPacket);

            System.out.println("Sent message: " + message);

            byte[] receiveData = new byte[1024];
            DatagramPacket receiveFacket = new DatagramPacket(receiveData,
receiveData.length);
            socket.receive(receivePacket);

// String acknowledgment = new String(receivePacket.getData(),
0, receivePacket.getLength());
// System.out.println("Received acknowledgment: " +
acknowledgment);

            socket.close();
            } catch (Exception e) {
                 e.printStackTrace();
            }
}
```

```
}
}
```

### Server

# **Output**

### Client

```
Run UDPServer × UDPClient ×

Column C
```

### Server

```
Run UDPServer × UDPClient ×

C:\Users\Lenovo\.jdks\openjdk-21.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains Received message: Hello, UDP Server!
```