Name: Bramha Nimbalkar

Roll no: 7

Srn: 202100381

ASSIGMENT 7

Socket Programming for TCP Client and TCP Server.

Client

```
} catch (IOException e) {
     e.printStackTrace();
}
}
```

Server

```
import java.io.*;
           System.out.println("Server is waiting for connections...");
           System.out.println("Client connected!");
           InputStream input = clientSocket.getInputStream();
           OutputStream output = clientSocket.getOutputStream();
           PrintWriter writer = new PrintWriter(output, true);
           clientMessage = reader.readLine();
           clientMessage1 = reader.readLine();
           clientMessage2 = reader.readLine();
           System.out.println("Client: " + clientMessage);
           System.out.println("Client: " + clientMessage1);
       } catch (IOException e) {
           e.printStackTrace();
```

```
}

// UDP (User Datagram Protocol) communication, on the other hand, uses
DatagramSocket and DatagramPacket

// for sending and receiving discrete, connectionless datagrams, and it
doesn't involve establishing

// a continuous connection as TCP does.
```

Output

Server



Client

```
Run server × client ×

C:\Users\Lenovo\.jdks\openjdk-21.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\Intelli
Server: ACK
Server: ACK
Server: ACK

Process finished with exit code 0

U
```

Server

```
Run server × client ×

C:\Users\Lenovo\.jdks\openjdk-21.0.1\bin\java.exe "-javaagent:C:\Program Server is waiting for connections...
Client connected!
Client: Hello, server! This is the client.
Client: Hello, server! This is the Bramha.
Client: Hello, server! This is the friends .

Process finished with exit code 0
```