TP Socket

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G07

Client-side:

```
break;
const net = require("net");
                                                                                            default:
const server = net.createServer((socket) => {
                                                                                               result = "Invalid operation";
 console.log("Client connected");
 socket.on("data", (data) => {
   const message = data.toString();
                                                                                          socket.write(result.toString());
   console.log("Received message from client:", message);
                                                                                       });
   const values = message.split(" ");
   const num1 = parseFloat(values[0]);
                                                                                       socket.on("end", () => {
   const num2 = parseFloat(values[1]);
   const operation = values[2];
                                                                                          console.log("Client disconnected");
                                                                                       });
   let result;
   switch (operation) {
                                                                                     });
     case "+":
       result = num1 + num2;
                                                                                     const PORT = 8080;
       break;
     case "-":
                                                                                     server.listen(PORT, () => {
       result = num1 - num2;
                                                                                       console.log(`Server listening on port ${PORT}`);
       break;
     case "*":
                                                                                     });
       result = num1 * num2;
       break;
     case "/":
       result = num1 / num2;
```

Server-side

```
const net = require("net");
     const readline = require("readline");
 4 v const rl = readline.createInterface({
       input: process.stdin,
       output: process.stdout,
     });
     const client = new net.Socket();
10
11 v client.connect(8080, "localhost", () => {
       console.log("Connected to server");
12
13
       rl.question("Enter first number: ", (num1) => {
14 🗸
         rl.question("Enter second number: ", (num2) => {
15 🗸
           rl.question("Enter operator (+, -, *, /): ", (operator) => {
16 🗸
             const message = `${num1} ${num2} ${operator}`;
17
             console.log(message);
18
             client.write(message);
19
          });
20
         });
21
       });
22
23
```

```
24
     client.on("data", (data) => {
25
       console.log("Result:", data.toString());
26
       client.destroy();
27
28
     });
29
     client.on("close", () => {
30
       console.log("Connection closed");
31
       process.exit(0);
32
     });
33
34
```

server run:

```
O PS C:\Users\acer\OneDrive - esi-sba.dz\Documents\Tp Socket> node Server-side.js
Server listening on port 8080
```

Client-run:

```
O PS C:\Users\acer\OneDrive - esi-sba.dz\Documents\Tp Socket> node Client-side.js
Connected to server
Enter first number:
```

Server when client connects:

```
O PS C:\Users\acer\OneDrive - esi-sba.dz\Documents\Tp Socket> node Server-side.js
Server listening on port 8080
Client connected
```

Client call:

```
PS C:\Users\acer\OneDrive - esi-sba.dz\Documents\Tp Socket> node Client-side.js
Connected to server
Enter first number: 10
Enter second number: 50
Enter operator (+, -, *, /): /
10 50 /
Result: 0.2
Connection closed
```

Server after client call:

```
○ PS C:\Users\acer\OneDrive - esi-sba.dz\Documents\Tp Socket> node Server-side.js
Server listening on port 8080
Client connected
Received message from client: 10 50 /
Client disconnected
```