Lab – Web socket

**Step 1 – Create Server Project**

Create a directory named server and inside that run following commands to create Express server

mkdir websocket-server

cd websocket-server

npm init

// add the details of your project

npm i ws express --save

// install the necessary types (and typescript)...

npm i typescript @types/ws @types/express -D

// ...optionally install typescript globally (tnx \_Maxxx\_)

npm i -g typescript

Open the project in VS code or your fab editor

**Step 2 – Configurations**

* Add following dependencies to package.json and run npm install

"concurrently": "^3.5.1",

"copy-newer": "^2.1.2",

"nodemon": "^1.14.11",

"rimraf": "^2.6.2",

"typescript": "^2.7.2"

* Add given tsconfig files
* Create src directory and add server.ts file into it
* Add respective given codes
* Update package.json scripts section

"clean": "rimraf dist",

"copy-deps": "copy-newer --cwd node\_modules \*\* ./dist/node\_modules",

"start": "node dist/server/server.js",

"preserve": "npm run build",

"s": "npm run serve",

"serve": "concurrently \"npm run build.w\" \"nodemon --watch ./dist/server ./dist/server/server.js\"",

"lint": "tslint \"src/\*\*/\*.ts\"",

"prebuild": "npm install",

"b": "npm run build.w",

"build": "npm run copy-deps && tsc",

"build.w": "npm run copy-deps && tsc -w"

**Step 3 – Building and running**

First build the application using **npm run build** command

If it executes successfully then run **npm run start**

It should start the server and listen on given port 8999

**Part – 2 Client App**