ASSIGNMENT- Teaching Assistant (Full Stack Development (MERN))

1. **Write a MongoDB query to find all documents in a collecȺon where a parȺcular field has a value greater than a certain value.**

   db.collectionName.find({ field: { $gt: value } })

   eg..

   db.products.find({ price: { $gt: 100 } })

2. **Write a simple Express.js route that takes in a parameter from the URL and returns it as a response.**

index.js

```
const express = require("express");

const app = express();


app.get("/", (req, res) => {

  res.send("Hello this is my server , enter parameter after /");

});


app.get("/:param", (req, res) => {

  const param = req.params.param;

  res.send(`The parameter is ${param}`);

});


app.listen(3000, console.log("App is running on port 3000"));
```

3. **Write a React component that renders a list of items fetched from an API.**

App.js

```
import { useEffect, useState } from "react";
import "./App.css";

function App() {
 const [userData, setUserData] = useState([]);

 useEffect(() => {
  fetchData();
 }, []);

 async function fetchData() {
  await fetch("https://jsonplaceholder.typicode.com/users/")
    .then((res) => res.json())
    .then((data) => {
     setUserData(data);
     console.log(userData);
    });
 }

 return (
  <div>
   <h1>Data List</h1>
   {userData.map((user) => (
    <h3 key={user.id}>{user.name}</h3>
   ))}
  </div>
 );
}

export default App;
```