

The following exercises are related to the use of Node/Express.

1. Create a git repository for your answers to this problem sheet. Push the repository to GitHub. Make a commit and push it to GitHub after each exercise.
2. What is Express? Again add you answer to your README file. <https://expressjs.com>
3. Write an server application that listens on localhost:3000 and returns “Welcome to Data Representation & Querying”. Follow the following tutorial: <https://expressjs.com/en/starter/hello-world.html>
4. Add another route point using the Express Framework that will take an argument form the url path and return hello “argument” for the url <http://localhost:3000/hello> eg <http://localhost:3000/hello/Ted> returns hello Ted
5. Add a route point `/api/movies` that will return the following json data:

```
{
  "movies": [
    {
      "Title": "Avengers: Infinity War",
      "Year": "2018",
      "imdbID": "tt4154756",
      "Type": "movie",
      "Poster": "https://m.media-amazon.com/images/M/MV5BMjMxNjY2MDU1OV5BM15BanBnXkFtZTgwNzY1MTUwNTM@._V1_SX300.jpg"
    },
    {
      "Title": "Captain America: Civil War",
      "Year": "2016",
      "imdbID": "tt3498820",
      "Type": "movie",
      "Poster": "https://m.media-amazon.com/images/M/MV5BMjQOMTgyNjAxMV5BM15BanBnXkFtZTgwNjUzMDkyODE@._V1_SX300.jpg"
    }
  ]
}
```

6. Add another route `/test` that returns a html page when Queried. Your file should called `index.html`. e.g `app.get`
7. Add a form to `index.html` with a two text boxs with `firstname` and `lastname` with the method GET. Set the form action to `"/name"` Add a submit button. In `server.js`, change the `"/name"` route to accept the name variable as a URL encoded GET variable. Run the server and test.

8. Add another form to index.html with a two text boxes with firstname and lastname with the method POST. Set the form action to “/name” Add a submit button. In main.js, change the “/name” route to accept the name variable as a body encoded POST variable. Run the server and test. There will be two methods in node.js one for GET and one for POST.