Lab 1: Introduction to GraphQL

Lab Solution Solution is present in `Lab1` directory. Run `npm install` before running solution.

To create a new project and install GraphQL.js in your current directory:

Do this:

```
npm init

npm install graphql@15.5.0 --save
```

To handle GraphQL queries, we need a schema that defines the Query type, and we need an API root with a function called a "resolver" for each API endpoint. For an API that just returns "Hello world!", we can put this code in a file named server.js:

Do this:

```javascript
var { graphql, buildSchema } = require('graphql');

// Construct a schema, using GraphQL schema language
var schema = buildSchema(`
  type Query {
    hello: String
  }
`);

// The root provides a resolver function for each API endpoint
var root = {
  hello: () => {
    return 'Hello world!';
  },
};

// Run the GraphQL query '{ hello }' and print out the response
graphql(schema, '{ hello }', root).then((response) => {
  console.log(response);
});
```

If you run this with:

Do this:

```
node server.js
```

You should see the GraphQL response printed out:

```
{ data: { hello: 'Hello world!' } }
```

Congratulations - you just executed a GraphQL query!