A simple CRUD API in node and express to get us started with node/express business!

Note:

CRUD stands for Create, Read, Update and Delete more info

SET-UP NODE project

```
1-npm init -y
2-

npm install express
npm install --save-dev nodemon
3-Update package.json to use nodemon:
"scripts": {
   "start": "nodemon index.js"
}
```

CREATE An Express SERVER

Content of index.js:

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```
res.json(todos)
});

// Start the server
app.listen(port, () => {
    console.log(`Server is running on http://localhost:${port}`);
});
```

Run your project now:

\$> npm start

On another terminal window run:

\$> curl http://localhost:3000/todos

```
What do you see?

Here's another way [easier!]:
```

Open your browser and navigate to http://localhost:3000/todos

If you are comfortable with the above, let's add the Create part of CRUD on the next page

After the GET part but before the app.listen add the following code:

```
// POST /todos - Add a new to-do item
app.post('/todos', (req, res) => {
  const newTodo = {
    id: todos.length + 1,
    task: req.body.task,
    completed: false
  };
  todos.push(newTodo);
  res.status(201).json(newTodo);
});
```

```
Question: What does code 201 in http mean?
Answer: https://developer.mozilla.org/en-US/docs/Web/HTTP/Status/201
Test it!
curl -X POST http://localhost:3000/todos -H "Content-Type:
application/json" -d '{"task": "Review Express documentation"}'
```

Let's do the Update of CRUD

```
// PUT /todos/:id - Update an existing to-do item
app.put('/todos/:id', (req, res) => {
 const id = parseInt(req.params.id);
 const todo = todos.find(t => t.id === id);
 if (!todo) {
    return res.status(404).send("To-Do item not found");
 }
 todo.task = req.body.task || todo.task;
  todo.completed = req.body.completed !== undefined ?
req.body.completed : todo.completed;
  res.json(todo);
});
Try it:
curl -X PUT http://localhost:3000/todos/1 -H "Content-Type:
application/json" -d '{"task": "Update Express guide", "completed":
true}'
```

Your task is now to add the DELETE part of CRUD :

Basically, find the id parameter, if not found, send a 404 response BUT if it exists, delete it using any number of array methods then SEND a 204 status response!

Everyone has 10 minutes to do it!