Practical 4

Build a simple to do API to do node.js with:

Post/todos – add to todos

Get/todos -list todos

API Code:

```javascript
1    // server.js
2
3    const express = require('express');
4    const app = express();
5    const port = 3000;
6
7    // Middleware to parse JSON bodies
8    app.use(express.json());
9
10   // In-memory "database" for our todos
11   let todos = [];
12   let nextId = 1;
13
14   // POST /todos → add a todo
15   app.post('/todos', (req, res) => {
16       const { title } = req.body;
17       if (!title) {
18           return res.status(400).send({ error: 'Title is required' });
19       }
20       const newTodo = {
21           id: nextId++,
22           title,
23           completed: false
24       };
25       todos.push(newTodo);
26       res.status(201).send(newTodo);
27   });
28
29   // GET /todos → list todos
30   app.get('/todos', (req, res) => {
31       res.status(200).send(todos);
32   });
33
34   // Start the server
35   app.listen(port, () => {
36       console.log(`To-Do API listening at http://localhost:${port}`);
37   });
```

Output of the API:

```
  node "/Users/ravithakur/Documents/GitHub/Node/Practical 6/server.js"
● ravithakur@Ravis-MacBook-Air Node % node "/Users/ravithakur/Documents/GitHub/Node/Practical 6/server.js"
  To-Do API listening at http://localhost:3000
○ ravithakur@Ravis-MacBook-Air Node % █
```

Add a To-Do Item (POST):

```
› ravithakur@Ravis-MacBook-Air Node % curl -X POST -H "Content-Type: application/json" -d '{"title": "Learn Node.js"}' http://localhost:3000/todos
█
```

List All To-Do Items (GET)

```
Pretty-print ☐
```

```
[{"id":1,"title":"Learn Node.js","completed":false}]
```