



#### **BACK-END TECHNOLOGIES**

**Experiment: -2** 

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## 1. Aim/Overview of the practical:

Q: - Store the data obtained in experiment 1 in file and use that file in another program?

#### 2. Introduction:

Node.js is an open-source, cross platform JavaScript runtime environment and library for running web applications outside the client's browser. Ryan Dhal developed it in 2009. We use node.js to create server-side web applications since it uses an asynchronous, event driven-model.

### 3. Algorithm/Flowchart:

- 1. Start
- 2. Set up a Node.js project and install necessary modules (e.g., readline) for user input.
- 3. Take input by user about Employee
- 4. Display Employee
- 5. Now save all employees in the Json file.
- 6. Exit

# 4. Code for experiment/practical:

```
const readline = require("readline");
const fs = require("fs"); const rl =
readline.createInterface({ input:
    process.stdin, output:
    process.stdout,
}); let employees = [];
function addEmployee() {
```





```
rl.question("Enter
employee name: ",
(name) => {
rl.question("Enter
employee ID: ", (id) => {
rl.question("Enter
employee salary: ",
(salary) => \{
                 const
employee = {
     id,
              name,
salary: parseFloat(salary),
    };
    employees.push(employee);
console.log("Employee added successfully.");
saveDataToFile();
                      displayMainMenu();
   });
  });
 }); } function
displayEmployees() {
console.log("Employee List:");
console.table(employees);
displayMainMenu();
} function displayMainMenu() {
console.log("\nEmployee Salary Program");
console.log("1. Add Employee");
```



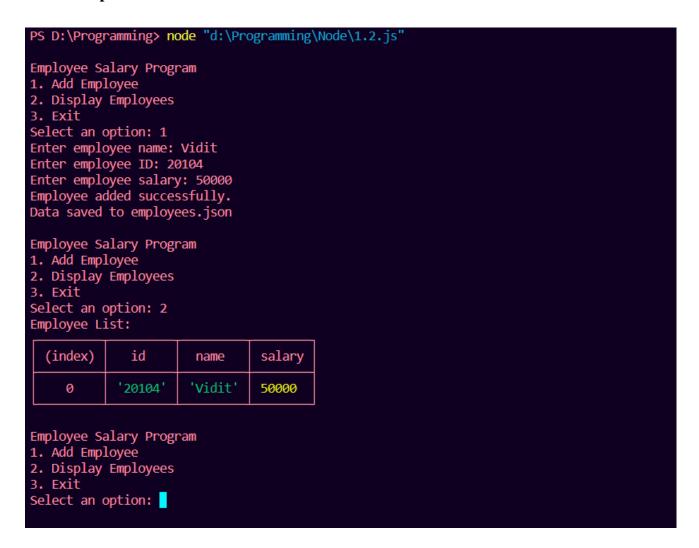


```
console.log("2. Display Employees");
console.log("3. Exit");
 rl.question("Select an option: ", (option) => {
switch (option) {
                    case "1":
addEmployee();
                     break;
                               case "2":
displayEmployees();
                          break;
                                    case "3":
console.log("Exiting...");
                              rl.close();
          default:
break;
    console.log("Invalid option.");
displayMainMenu();
 }); } function saveDataToFile() { const jsonData =
JSON.stringify(employees, null, 2);
fs.writeFileSync("employees.json", jsonData, "utf8");
console.log("Data saved to employees.json");
} displayMainMenu();
```





#### 5. Output: -



## Learning outcomes (What I have learnt):

- 1. Able to learn the concepts of Node.js.
- 2. Able to learn about readline modules and manipulate data accordingly.
- 3. Able to learn how to get user input.
- 4. Able to learn save all data that we have inter in Json file.