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NAAC GRADE A+ ACCREDITED UNIVERSITY

Worksheet - 2

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Subject Name: Back End Technologies **Subject Code: 22CAH-706**

Q. Store the data obtained in the experiment 1.1 in file and use that file in other program.

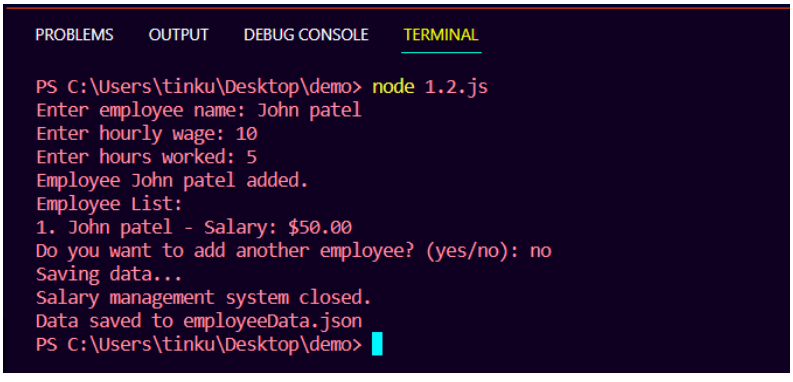
Aim/Overview of the practical: To fetch data from one file to another.

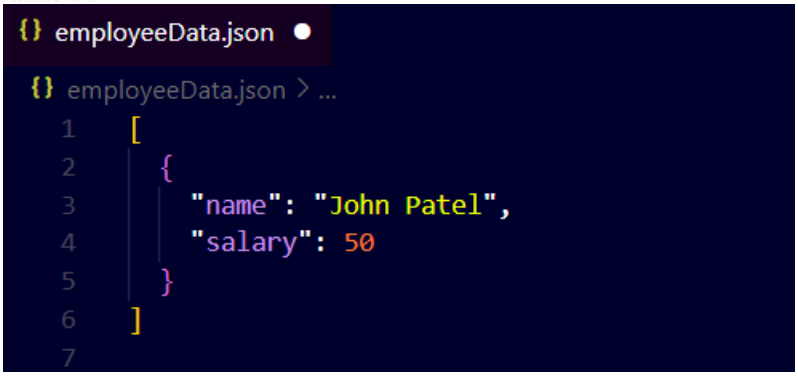
1. **Code for experiment/practical:**

```
const fs = require('fs');
const readline = require('readline');
const rl = readline.createInterface({
 input: process.stdin,
 output: process.stdout
});
const employees = [];
// ... Rest of the code ...
function calculateSalary(wage, hours) {
 return wage * hours;
}
function displayEmployeeList() {
 console.log('Employee List:');
 employees.forEach((employee, index) => {
 console.log(`${index + 1}. ${employee.name} - Salary:
$${employee.salary.toFixed(2)}`);
 });
}
function addEmployee() {
 rl.question('Enter employee name: ', (name) => {
 rl.question('Enter hourly wage: ', (hourlyWage) => {
 rl.question('Enter hours worked: ', (hoursWorked) => {
 const wage = parseFloat(hourlyWage);
 const hours = parseFloat(hoursWorked);
 const salary = calculateSalary(wage, hours);
```

```
 employees.push({ name, salary });
 console.log(`Employee ${name} added.`);
 displayEmployeeList();
 rl.question('Do you want to add another employee? (yes/no): ', (answer)
=> {
 if (answer.toLowerCase() === 'yes') {
 addEmployee();
 } else {
 console.log('Saving data...');
 saveToFile();
 console.log('Salary management system closed.');
 rl.close();
 }
 });
function saveToFile() {
 const dataToSave = JSON.stringify(employees, null, 2);
 fs.writeFile('employeeData.json', dataToSave, 'utf8', (err) => {
 if (err) {
 console.error('Error saving data to file:', err);
 console.log('Data saved to employeeData.json');
 }
 });
}
// Start the process by calling addEmployee
addEmployee();
```

2. **Result/Output/Writing Summary:**





5. Learning outcomes (What I have learnt):

1. Able to fetch the stored data from one to another.

2. Able to gather employee information such as name, wage, and hours worked from the user through the command line.

3. Able to provide a feature to user continue adding employees, and once they are done, the collected employee data is saved to a JSON file named employeeData.json.