Salary Management System

Members

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How project looks?

- The program runs in the command prompt / console window.
- A menu is displayed on the screen with numbered options.
- The user selects options by entering numbers 1to6.
- All input and output are shown in text format.
- No mouse or graphics are use only keyboard input.

```
===== Salary Management System =====
1. Add Employee
2. Display All Employees
3. Search Employee
4. Delete Employee
5. Update Employee
6. Exit
Enter Your Choice:
```

How the Program Runs

1. When the program starts, it loads employee data from a file named employees.txt.
2. The main menu appears on the screen.
3. The user chooses an option from the menu.

4. According to the selected option, the program performs the required task.
5. After adding, updating, or deleting data, the program saves changes back to the file.
6. The program keeps running until the user selects Exit.

Employee Information Stored

For each employee, the program stores:

- Employee ID
- Name
- Father Name
- CNIC
- Date of Joining
- Basic Salary
- Grade
- Department
- Allowance
- Tax (5% of basic salary)
- Net Salary
- Deduction from the employee salary
- Overtime hours
- Overtime rate per hour

Features of the Program

1. Add Employee

- The user enters all employee details.
- Tax is calculated automatically (5% of basic salary).

- Net salary is calculated as:
  Basic Salary + Allowance − Tax
- The employee record is saved in the file.

2. Display All Employees

- Shows all stored employee records one by one.
- If no record exists, a message "No Records Found" is displayed.

3. Search Employee

- The user enters an Employee ID**.**
- If the ID exists, the full employee record is shown.
- If not found, the message "Record Not Found" appears.

4. Delete Employee

- The user enters the Employee ID to delete.
- If found, the record is removed from memory and file.
- A success message is shown.

5. Update Employee

- The user can update:
  - Basic Salary

- ○ Grade
- ○ Department
- ○ Allowance
- ○ Deduction
- ○ Overtime hours
- ○ Over time rate per hour
- Tax and net salary are recalculated automatically.
- Updated data is saved in the file.

6. Exit

- The program closes safely.
- All saved data remains stored in employees.txt.

6. File Handling

- The program uses file handling to store data permanently.
- Employee records are saved in **employees.txt**.
- When the program starts again it reloads all previous data from the file.

Contribution of the members:

M Jawad Ashraf

- File Handling
- Functions (Add ,Search,Delete,Update,Display)
- Calculations(Tax , Net Salary etc)

M Talal Ahmed

- Structure of the program
- Specify Data types
- Initialized Data Types

M Ali Uzair

- Clear Screen Function
- Sort employee according to their id numbers
- Structure of the program (M Talal Ahmed & M Ali Uzair)

M Waleed Imran

- Functions (Date of Joining,Cnic,Father Name etc)
- Deduction
- Overtime hours
- Overtime rate