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Aim: Write a program to maintain a simple employee
database using a file handling */
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
struct Employee {
    int id;
    char name[100];
    float salary;
};
void addEmployee(FILE *file) {
    struct Employee emp;
    // Take employee details as input
    printf("Enter Employee ID: ");
    scanf("%d", &emp.id);
    getchar();
    printf("Enter Employee Name: ");
    fgets(emp.name, sizeof(emp.name), stdin);
    emp.name[strcspn(emp.name, "\n")] = 0;
    printf("Enter Employee Salary: ");
    scanf("%f", &emp.salary);
    fwrite(&emp, sizeof(struct Employee), 1, file);
    printf("Employee added successfully!\n");
}
void displayEmployees(FILE *file) {
    struct Employee emp;
    rewind(file);
    printf("\nEmployee List:\n");
    while (fread(&emp, sizeof(struct Employee), 1, file)) {
        printf("ID: %d\n", emp.id);
        printf("Name: %s\n", emp.name);
        printf("Salary: %.2f\n", emp.salary);
        printf("-----\n");
    }
}
void searchEmployee(FILE *file, int searchID) {
    struct Employee emp;
    rewind(file);
    int found = 0;
    while (fread(&emp, sizeof(struct Employee), 1, file)) {
        if (emp.id == searchID) {
            printf("\nEmployee Found:\n");
            printf("ID: %d\n", emp.id);
            printf("Name: %s\n", emp.name);
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printf("Salary: %.2f\n", emp.salary);
            found = 1:
            break;
        }
    }
    if (!found) {
        printf("Employee with ID %d not found!\n", searchID);
}
// Main function
int main() {
    FILE *file;
    int choice, searchID;
    file = fopen("employee_db.dat", "ab+");
    if (file == NULL) {
        printf("Error opening file!\n");
        return 1;
    }
    while (1) {
        printf("\nEmployee Database Management\n");
        printf("1. Add Employee\n");
        printf("2. Display All Employees\n");
        printf("3. Search Employee by ID\n");
        printf("4. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);
        switch (choice) {
            case 1:
                addEmployee(file);
                break;
            case 2:
                displayEmployees(file);
                break;
            case 3:
                printf("Enter Employee ID to search: ");
                scanf("%d", &searchID);
                searchEmployee(file, searchID);
                break;
            case 4:
                fclose(file);
                printf("Exiting the program...\n");
                return 0;
            default:
                printf("Invalid choice! Please try again.\n");
        }
    }
    fclose(file);
    return 0;
}
/*output
Employee Database Management
1. Add Employee
2. Display All Employees
3. Search Employee by ID
4. Exit
Enter your choice: 1
```

Enter Employee ID: 1702

Enter Employee Name: Jacob Arabo Enter Employee Salary: \$25,0000 Employee added successfully!

Employee Database Management

- 1. Add Employee
- Display All Employees
 Search Employee by ID
 Exit

Enter your choice: Enter Employee ID:

Enter Employee Name: Enter Employee Salary*/