16. Develop a C program for implementing random access file for processing the employee details.

```c
#include <stdio.h>

#include <stdlib.h>

struct Emp {

    int id;

    char name[30];

    float salary;

};

int main() {

    struct Emp e[50];

    int count = 0, choice, i, id, found = 0;

    while (1) {

        printf("\n--- Employee Menu ---\n");

        printf("1. Add Employee\n2. Display All\n3. Search by ID\n4. Exit\n");

        printf("Enter choice: ");

        scanf("%d", &choice);

        switch (choice) {

            case 1:

                printf("Enter ID: ");

                scanf("%d", &e[count].id);

                printf("Enter Name: ");

                scanf("%s", e[count].name);

                printf("Enter Salary: ");

                scanf("%f", &e[count].salary);

                count++;

                printf("Employee added!\n");

                break;

            case 2:

                printf("\n--- Employee List ---\n");
```

```c
            for (i = 0; i < count; i++)
                printf("ID: %d | Name: %s | Salary: %.2f\n", e[i].id, e[i].name, e[i].salary);
            break;
        case 3:
            printf("Enter ID to search: ");
            scanf("%d", &id);
            found = 0;
            for (i = 0; i < count; i++) {
                if (e[i].id == id) {
                    printf("Record Found: ID=%d, Name=%s, Salary=%.2f\n", e[i].id, e[i].name, e[i].salary);
                    found = 1;
                    break;
                }
            }
            if (!found) printf("Record not found!\n");
            break;
        case 4:
            printf("Exiting...\n");
            exit(0);
        default:
            printf("Invalid choice!\n");
    } }
    return 0;
}
```

OUTPUT-

```c
#include <stdio.h>
#include <stdlib.h>
struct Emp {
    int id;
    char name[30];
    float salary;
};
int main() {
    struct Emp e[50];
    int count = 0, choice, i, id, found = 0;
    while (1) {
        printf("\n--- Employee Menu ---\n");
        printf("1. Add Employee\n2. Display All\n3. Search by ID\n4. Exit\n");
        printf("Enter choice: ");
        scanf("%d", &choice);
        switch (choice) {
            case 1:
                printf("Enter ID: ");
                scanf("%d", &e[count].id);
                printf("Enter Name: ");
                scanf("%s", e[count].name);
                printf("Enter Salary: ");
                scanf("%f", &e[count].salary);
                count++;
```

Compile Log Debug Find Results Close

```
1. Add Employee
2. Display All
3. Search by ID
4. Exit
Enter choice: 1
Enter ID: 12345678
Enter Name: roja
Enter Salary: 50000
Employee added!

--- Employee Menu ---
1. Add Employee
2. Display All
3. Search by ID
4. Exit
Enter choice: 2

--- Employee List ---
ID: 12345678 | Name: roja | Salary: 50000.00
```