Sub: ESFP – I
Course Code: 2CSE102
Practical – 17

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Q.1.Problem Definition:

Make an appropriate program in C to accept five employee records like (Emp_Id, Emp_Name, Emp_Dept, Emp_Designation, Salary) from the user. And display that record on the screen / terminal.

Code:

```c
#include <stdio.h>

struct employee
{
    int id;
    char name[20], designation[20], department[20];
    float salary;
} N[5];

int main()
{
    int i;

    printf("======Employee Details======\n");
    printf("Id Name Designation Department Salary\n");
    for (i = 0; i < 4; i++)
    {
        scanf("%d %s %s %s %f", &N[i].id, &N[i].name, &N[i].department,
&N[i].designation, &N[i].salary);
    }
```

```c
    printf("\n");
    printf("======Employee Details======\n");
    printf("Id Name Designation Department Salary\n");
    for (i = 0; i < 4; i++)
    {
        printf("\n%d %s %s %s %f", N[i].id, N[i].name, N[i].department,
N[i].designation, N[i].salary);
    }
}
```

Output:

Q.2.Problem Definition:

Vivek College, which is situated at Mumbai. College authority decides to come up with a new idea for handling examination section seating arrangements for different-different courses. For that, college wants separate records, those who one is giving a remedial exam for the semester-IV. For that, the college authorities want to take all the information related to students like roll no, name, class, semester, subject, and exam fee. So, whenever is required to search records by id, or by name or by class, he can search randomly and on the basis of those records, he can make a proper seating arrangement as per the rules of the examination committee. So, for the fulfillment of the above said requirement, make an appropriate program with the help

Code:

```c
#include <stdio.h>
#include <string.h>

struct Student
{
    int rollno;
```

```c
    char name[20];
    char std[20];
    char semester[20];
    char subject[20];
    int exam_fee;
} students[50];

int main()
{
    int n, i;

    printf("Enter how many records you want to store: ");
    scanf("%d", &n);

    printf("Enter rollno, name, class, semester, subject, and exam fee:\n");
    for (i = 0; i < n; i++)
    {
        scanf("%d %s %s %s %s %d", &students[i].rollno, students[i].name,
students[i].std, students[i].semester, students[i].subject,
&students[i].exam_fee);
    }

    printf("\nStudent Records:\n");
    for (i = 0; i < n; i++)
    {
        printf("%d %s %s %s %s %d\n", students[i].rollno, students[i].name,
students[i].std, students[i].semester, students[i].subject,
students[i].exam_fee);
    }

    int search_id;
    printf("Find the student record by ID:\n");
    printf("Enter student ID: ");
    scanf("%d", &search_id);

    for (i = 0; i < n; i++)
    {
        if (students[i].rollno == search_id)
        {
            printf("%d %s %s %s %s %d\n", students[i].rollno, students[i].name,
students[i].std, students[i].semester, students[i].subject,
students[i].exam_fee);
            break;
```
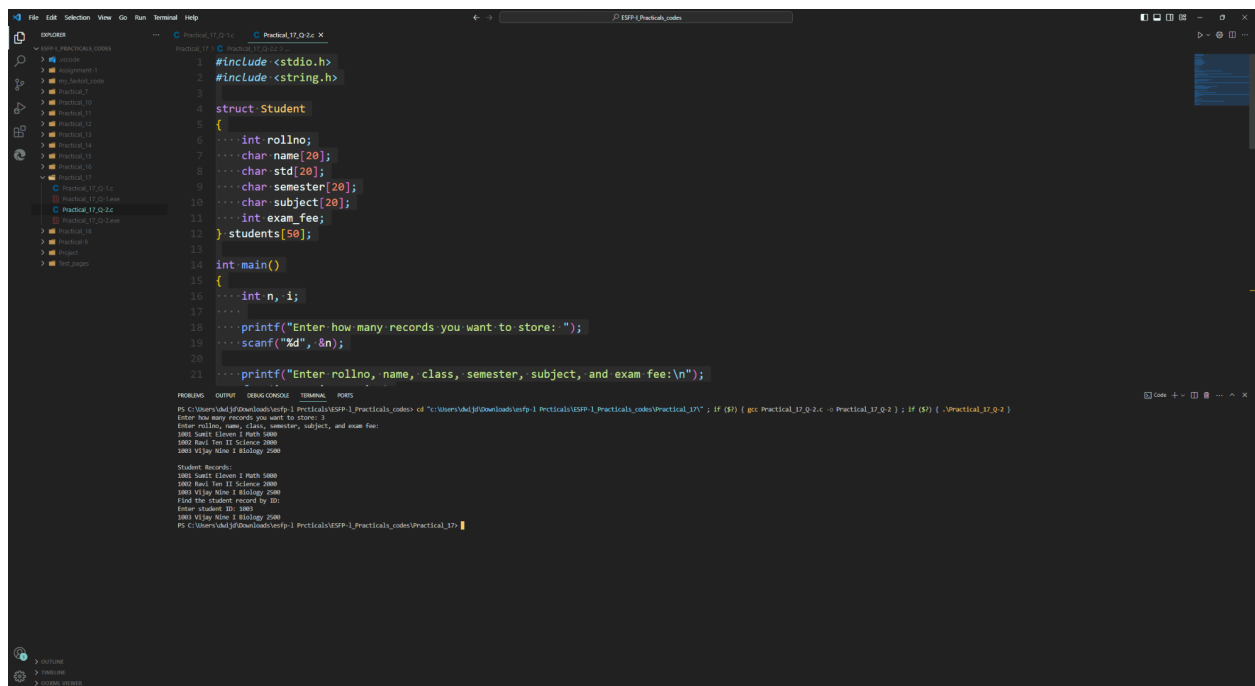
```c
        }
    }

    if (i == n)
    {
        printf("Student with ID %d not found.\n", search_id);
    }

    return 0;
}
```

Output: