

institute of Computer Technology
B. Tech. Computer Science and Engineering

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

Name: Dwij vatsal desai

Roll No: BDA-08

Branch: BDA

Class: B

Batch: 14

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:

```
#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);
    }
}
```

```

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:

```

1 #include <stdio.h>
2
3 struct employee
4 {
5     int id;
6     char name[20], designation[20], department[20];
7     float salary;
8 } N[5];
9
10 int main()
11 {
12     int i;
13
14     printf("=====Employee Details=====\\n");
15     printf("Id Name Designation Department Salary\\n");
16     for (i = 0; i < 4; i++)
17     {
18         scanf("%d %s %s %s %f", &N[i].id, &N[i].name, &N[i].department, &N[i].designation, &N[i].salary);
19     }
20
21     printf("\\n");

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL POINTS

```

PS C:\Users\dell\Downloads\vsfp-1\Practicals\VSFP-1\Practicals_codes> if ($?) { gcc Practical_17_0-1.c -o Practical_17_0-1 } ; if ($?) { .\Practical_17_0-1 }

=====Employee Details=====
Id Name Designation Department Salary
1801 Santu Finance Manager 40000.000000
1802 Ravi Marketing Sales 12000.000000
1803 Raviya Admin Clerk 10000.000000
1804 Pankar Finance Accountant 10000.000000

=====Employee Details=====
Id Name Designation Department Salary
1801 Santu Finance Manager 40000.000000
1802 Ravi Marketing Sales 12000.000000
1803 Raviya Admin Clerk 10000.000000
1804 Pankar Finance Accountant 10000.000000
PS C:\Users\dell\Downloads\vsfp-1\Practicals\VSFP-1\Practicals_codes>

```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\dwijd\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes> cd "c:\Users\dwijd\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes\Practical_17"
====Employee Details====
Id Name Designation Department Salary
1001 Sumit Finance Manager 40000
1002 Ravi Marketing Sales 15000
1003 Bhavin Admin Clerk 10000
1004 Pushkar Finance Accountant 35000

====Employee Details====
Id Name Designation Department Salary
1001 Sumit Finance Manager 40000.000000
1002 Ravi Marketing Sales 15000.000000
1003 Bhavin Admin Clerk 10000.000000
1004 Pushkar Finance Accountant 35000.000000
PS C:\Users\dwijd\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes\Practical_17>
```

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:

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

struct Student
{
    int rollno;
```

```

    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);
    }

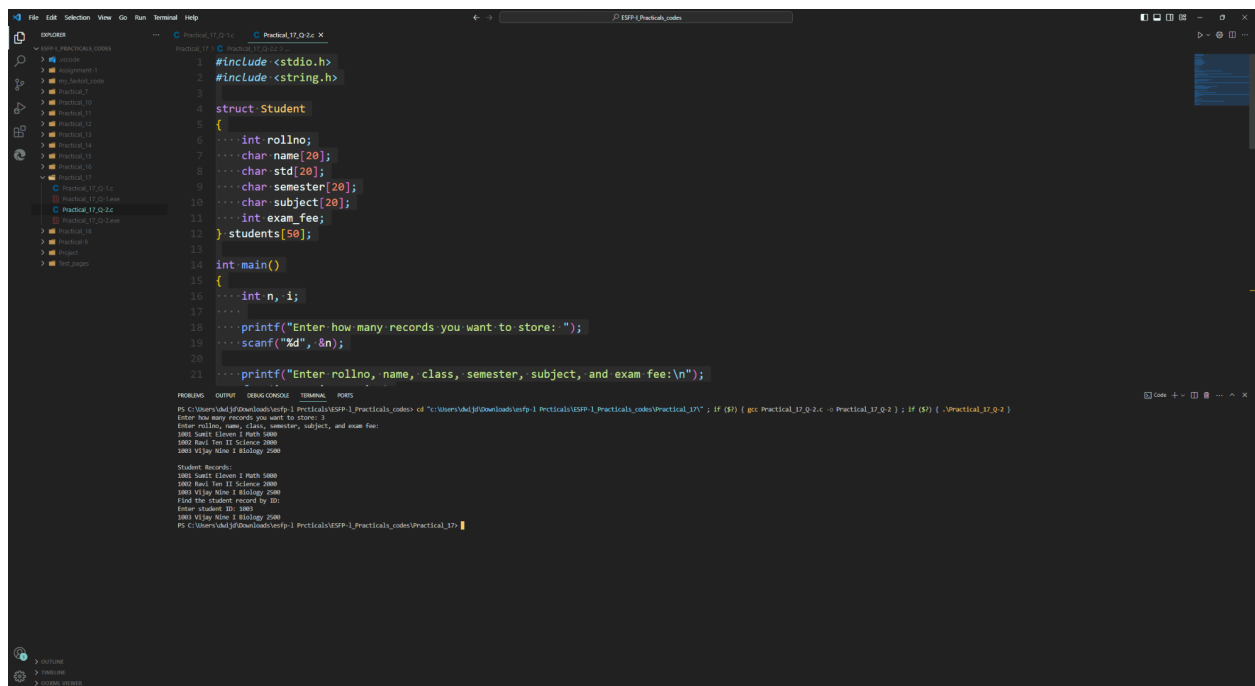
    int search_id;
    printf("Find the student record by ID:\n");
    printf("Enter student ID: ");
    scanf("%d", &search_id);

    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;
        }
    }
}

```

```
    }  
}  
  
if (i == n)  
{  
    printf("Student with ID %d not found.\n", search_id);  
}  
  
return 0;  
}
```

Output:



```
1 #include <stdio.h>
2 #include <string.h>
3
4 struct Student
5 {
6     int rollno;
7     char name[20];
8     char std[20];
9     char semester[20];
10    char subject[20];
11    int exam_fee;
12 } students[50];
13
14 int main()
15 {
16     int n, i;
17
18     printf("Enter how many records you want to store: ");
19     scanf("%d", &n);
20
21     printf("Enter rollno, name, class, semester, subject, and exam fee:\n");
22
23     for (i = 0; i < n; i++)
24     {
25         printf("Enter rollno, name, class, semester, subject, and exam fee: ");
26         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);
27     }
28
29     printf("\nStudent Records:\n");
30     for (i = 0; i < n; i++)
31     {
32         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);
33     }
34
35     printf("\nFind the student record by ID:\n");
36     int id;
37     printf("Enter student ID: ");
38     scanf("%d", &id);
39
40     for (i = 0; i < n; i++)
41     {
42         if (students[i].rollno == id)
43         {
44             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);
45             break;
46         }
47     }
48 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\dwij\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes> cd "c:\Users\dwij\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes\Practical_17" & if (\$?) { gcc Practical_17_Q2.c -o Practical_17_Q2 }; if (\$?) { .\Practical_17_Q2 }

Enter how many records you want to store: 3

Enter rollno, name, class, semester, subject, and exam fee:

1001 Sumit Eleven I Math 5000

1002 Ravi Ten II Science 2000

1003 Vijay Nine I Biology 2500

Student Records:

1001 Sumit Eleven I Math 5000

1002 Ravi Ten II Science 2000

1003 Vijay Nine I Biology 2500

Find the student record by ID:

Enter student ID: 1003

1003 Vijay Nine I Biology 2500

PS C:\Users\dwij\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes\Practical_17>

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\dwij\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes> cd "c:\Users\dwij\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes\Practical_17" & if ($?) { gcc Practical_17_Q2.c -o Practical_17_Q2 }; if ($?) { .\Practical_17_Q2 }
```

Enter how many records you want to store: 3

Enter rollno, name, class, semester, subject, and exam fee:

1001 Sumit Eleven I Math 5000

1002 Ravi Ten II Science 2000

1003 Vijay Nine I Biology 2500

Student Records:

1001 Sumit Eleven I Math 5000

1002 Ravi Ten II Science 2000

1003 Vijay Nine I Biology 2500

Find the student record by ID:

Enter student ID: 1003

1003 Vijay Nine I Biology 2500

PS C:\Users\dwij\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes\Practical_17>