FOC Project

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Code :

```
#include <stdio.h>


struct stdinfo{                         //defining structure
        char name[10];
        int ron;
        float perc;
}std[10];                               //structure variables


int main(){


        int input, std_num, i, run = 1, flag = 0; //definitions
        char std_name[20];


        std[0].ron = 0; // setting a default value to check if the structure is empty or not


        while(run == 1)
        {


                printf("\t\t\t\tStudent Records\n");
```

```
printf("1.Enter Record\n2.Display all record\n3.Display one record\n4.Exit program\n");
scanf("%d", &input);

switch(input)
{
    case 1:    //to enter new record
        printf("enter number of records to enter: \n");//to find the number of
times to iterate the for loop
        scanf("%d", &std_num);

        for(i = 0; i < std_num; i++)//taking values
        {

            printf("enter name: \n");
            scanf("%s", &std[i].name);
            printf("Enter roll number: \n");
            scanf("%d", &std[i].ron);
            printf("Enter percentage: \n");
            scanf("%f", &std[i].perc);
        }
        break;

    case 2: //displaying all records

        if(std[0].ron == 0)//checking if structure is empty or nat
        {
```

```
                printf("No records to display\n");
                break;
        }
        printf("\n");
        printf("Name\t\troll number\tpercentage\n");
        for(i = 0; i < std_num; i++)//printing records
        {
                printf("%s\t\t", std[i].name);
                printf("%d\t\t", std[i].ron);
                printf("%.2f\n", std[i].perc);
        }
        printf("\n");
        break;

case 3:
        if(std[0].ron == 0)//checking if structure is empty or not
        {
                printf("No records to display\n");
                break;
        }

        printf("Enter student name: \n");//taking name as input to find record
        scanf("%s", &std_name);
        printf("\n");
```

```
                for(i = 0; i < std_num; i++)
                {
                        if(strcmp(std_name, std[i].name) == 0) // comparing name given by user and name in structure, if found then print information
                        {
                                flag = 1;
                                printf("Name\t\troll number\tpercentage\n");
                                printf("%s\t\t", std[i].name);
                                printf("%d\t\t", std[i].ron);
                                printf("%.2f\n", std[i].perc);
                        }
                        if(flag == 0)
                        {
                                printf("No such entry found.\n");
                        }
                }
                printf("\n");
                break;

        case 4:
                return 0;

        default:
                printf("\nInvalid Input\n");

}
```

```
        }
        return 0;
}
```

Output :

```
                                Student Records
1.Enter Record
2.Display all record
3.Display one record
4.Exit program
1
enter number of records to enter:
3
enter name:
Mayur
Enter roll number:
428
Enter percentage:
85
enter name:
Arpan
Enter roll number:
407
Enter percentage:
90
```

enter name:

Ankit

Enter roll number:

414

Enter percentage:

95

Student Records

1.Enter Record

2.Display all record

3.Display one record

4.Exit program

2

Name	roll number	percentage
Mayur	428	85.00
Arpan	407	90.00
Ankit	414	95.00

Student Records

1.Enter Record

2.Display all record

3.Display one record

4.Exit program

3

Enter student name:

Mayur

Name roll number percentage

Mayur 428 85.00

Student Records

1.Enter Record

2.Display all record

3.Display one record

4.Exit program

4

Process exited after 76.39 seconds with return value 0

Press any key to continue . . .