

15.STUDENT DETAILS

Aim:

To write a c program to prepare the mark sheet of “n” students using structures

Algorithm:

Step 1:Start the program

Step 2:Defining the structure student with members

Step 3:Declare the necessary variables

Step 4:Set a loop to get the details of student mark list

Step 5:read the student details

Step 6:total the marks and to calculate the average of students marks

Step 7:check the conditions

Step 8:set a loop to print the mark list

Step 9:Stop

Program coding:

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

struct student
{
char name[30];
int roll_no;
char department[30];
char course[30];
int year;
}s[5];

int i;

void searchstudent(struct student*,int);

void disp();

void display(struct student*);
```

```

main()
{
    int rl,p;
    for(i=0;i<5;i++)
    {
        printf("enter name,id,dept,course,year:");
        scanf("%s%d%s%s%d",&s[i].name,&s[i].roll_no,&s[i].department,&s[i].course,&s[i].year);
        getch();
    }
    disp();
    display(s);
    printf("enter num you want to search");
    scanf("%d",&rl);
    searchstudent(s,rl);
    system("pause");
    return 0;
}

void disp()
{
    for(i=0;i<5;i++)
    {
        printf("and here is whatyou entered");

        printf("name=%s\n\nroll.=%d\n\ndept=%s\n\ncourse=%s\n\nyear=%d\n\n",s[i].name,s[i].roll_no,s[i].department,s[i].course,s[i].year);
    }
}

void display(struct student *p)
{printf("Name=%s\n\nroll=%d\n\ndept=%s\n\ncourse=%s\n\nyear=%d\n\n",p->name,p->roll_no,p->department,p->course,p->year);

}

void searchstudent(struct student *p,int roll_no)
{

```

```
int i,found=0;

for(i=0;i<5;i++)

{

if(p->roll_no==roll_no)

{

printf("record found");

printf("name=%s\n\nroll=%d\n\ndept==%s\n\ncourse=%s\n\nyear=%d\n\n",p->name,p->roll_no,p->department,p->course,p->year);

found=1;

}}

if(found==0){

printf("not found");

}}
```

Output:

```
enter name,id,dept,course,year:sanjay 56 cse BE 2019
enter name,id,dept,course,year:bhaski 32 cse BE 2020
enter name,id,dept,course,year:vasanth 59 cse BE 2021
enter name,id,dept,course,year:sibi 49 cse BE 2022
enter name,id,dept,course,year:jagan 30 eie BE 2023
```

course=BE

year=2022

and here is whatyou enteredname=jagan

roll.=30

dept=eie

course=BE

year=2023

Name=san jay

roll=56

dept=cse

course=BE

year=2019

enter num you want to search_