MINI PROJECT

OBJECTIVE -

If you want to store a record of a hundred student you will need to define hundred variables to store the name and similarly hundred variables for each type of data you need to enter in the record. This is where structures come in handy. In this program we will make a structure of student that will store the name of the student, the age of the student, department of the student, registration number of student and the CGPA.

PROBLEM DEFINATION -

Taking 3 numbers of student's information using structures which has no data type restriction and which is able to store the name of the student, the age of the student, department of the student, registration number of student and the CGPA and it fill also tell topper CGPA for the class.

SOURCE CODE

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

struct Student
{
	char name[50];
	int age;
	float gpa;
};
int main()
{

	struct Student s[3];
```

```
    int i,j;

    for(i=0; i<3;i++)
    {
        printf("Enter the name of the student %d: ",i+1);
        scanf(" %s",&s[i].name);

        printf("Enter the age of student %d:",i+1);
        scanf("%d",&s[i].age);

        printf("Enter the GPA of student %d:",i+1);
        scanf("%f",&s[i].gpa);

        printf("\n");

    }


    float maxgpa;
    int l;

    for(l=0;l<3;l++)
    {
        if(l==0)
        maxgpa=s[l].gpa;
        else if(maxgpa<s[l].gpa)
        {
            maxgpa=s[l].gpa;
        }
```

```
        }
        printf("\nThe data you enetered.\n");

        int m;
        for(m=0; m<3;m++)
        {
                printf("\nName:%s",s[m].name);

                printf("\nAge:%d",s[m].age);

                printf("\nGPA: %0.2f",s[m].gpa);
                printf("\n");


        }

        printf("The Maximum GPA is:%0.2f",maxgpa);


        getch();
}
```