***VOLOUME 14***

#include<stdio.h>

#include<string.h>

#include<stdlib.h>

**///Structure Declaration**

struct student

{

int id;

char name[20];

float student\_course[20][20];

float student\_cgpa;

} students[20];

**///function for Printout**

void print\_studentinfo(struct student first\_student)

{

fflush(stdin);

printf("Name: %s\n",first\_student.name);

printf("ID: %d\n",first\_student.id);

printf("CGPA: %.2f\n",first\_student.student\_cgpa);

printf("\n");

}

int main()

{

**///Declaration FILE**

FILE \*GpaList;

GpaList = fopen("GPA\_List.txt","a+");

if(GpaList==NULL)

{

printf("File Don't create successfully\n");

exit(1);

}

**///this variable is Student Details**

int number,subject;

**///this variable is for loop**

int student,course,info,fileloop;

printf("How Many Student are you calculation cgpa\n");

scanf("%d",&number);

fprintf(GpaList,"How many Student are you calculation CGPA\n");

fprintf(GpaList,"%d\n",number);

printf("How many Subject Per Student\n");

scanf("%d",&subject);

fprintf(GpaList,"How many Subject per Student\n");

fprintf(GpaList,"%d\n",subject);

**///this loop is for student count**

for(student=0; student<number; student++)

{

printf("Enter your student name..\n");

scanf("%s",&students[student].name);

fprintf(GpaList,"%s\t",students[student].name);

printf("Enter your student ID..\n");

scanf("%d",&students[student].id);

fprintf(GpaList,"%d\t",students[student].id);

**///this loop is for course count**

for(course=0; course<subject; course++)

{

fflush(stdin);

printf("Enter %d student %d course\n",student+1,course+1);

scanf("%f",&students[student].student\_course[student][course]);

fprintf(GpaList,"%.2f\t",students[student].student\_course[student][course]);

}

fprintf(GpaList,"\n");

}

fprintf(GpaList,"Calculated CGPA:-\n");

fprintf(GpaList,"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

fprintf(GpaList,"Name\tID\tCGPA\n");

fprintf(GpaList,"-------------------------------------\n");

**///this loop is calculation cgpa**

for(student=0; student<number; student++)

{

students[student].student\_cgpa=0;

for(course=0; course<subject; course++)

{

students[student].student\_cgpa=students[student].student\_cgpa+students[student].student\_course[student][course]\*3;

}

**///all subject is 3 credit**

students[student].student\_cgpa=students[student].student\_cgpa/(float)(subject\*3);

fprintf(GpaList,"%s\t%d\t%.2f\n",students[student].name,students[student].id,students[student].student\_cgpa);

}

For(info=0; info<number; info++){

If(students[info].student\_cgpa> students[info+1].student\_cgpa){

Printf(“Maximum CGPA is %.2f\n”,students[info].student\_cgpa);

Fprintf(GpaList,”Maximum CGPA is %.2f\n”, students[info].student\_cgpa);

}

**}**

**///call the function**

for(info=0; info<number; info++)

{

print\_studentinfo(students[info]);

}

fclose(GpaList);

return 0;

}