Xxxxxxxxxxxxxxxxxx(Title of your project)

A Mini Project

Academic Year: 2021 - 22 ODDSEMESTER

Department with Specialization: B.Tech., - Computer Science

and

Engineering with AI & ML

Semester : I

Course Code : 18CSS101J

Course Title : Programming Problem

Solving

Submitted by

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DEPARTMENT OF COMPUTING KATTANKULATHUR- 603 203 January 2022 AIM: To provide a convenient and comprehensive method of assistance to a teacher or lecturer to amplify the accessibility of students marks or grades.

ALGORITHM:

Step 1: Start

Step 2: Declare a file variable

Step 3 : Open the file Srm.dat in writing mode

Step 4 : Declare the variables

Step 5 : Press 1 to continue and 0 to exit

Step 6: Assign the values of marks of the respective subjects

Step 7: Close the writing file

Step 8 : Open the file Srm.dat in reading mode

Step 9: Read the data by using fscanf

Step 10: Caluculate the total and average marks

Step 11: The respective student marks will be portrayed as either pass or fail on basis of the marks obtained in the particular subjects

Step 12: If the student fails in any particular subject/subjects then the failed subject/subjects are portrayed for that respective student

Step 13: Close the reading file

Step 14: End

Source Code:

```
Writing file:
#include<stdio.h>
#include<stdlib.h>
int main()
{FILE *fp;
fp=fopen("Srm.dat","a");
int sno,m1,m2,m3,m4,m5;
char name[100];
printf("
                    \n'');
printf("
                \n'');
                # ##*#*#*#*#*#*#*#*#*#*#
printf("
                                                                     \n'');
printf("
                ##
                                                                    n'';
printf("
                ##
                        STUDENT RECORD PROGRAMME
                                                               ##
                                                                    \n'');
printf("
                ##
                                                                    \n'');
                # ##*#*#*#*#*#*#*#*#*#*#*#
printf("
                                                                     \n'');
                printf("
                                                                    \n'');
printf("\n");
printf(" #------#\n");
printf(" | Note:-
                                                 |\n'');
printf(" | the maximum marks that can be achieved in each subject : 50M
                                                                   |\mathbf{n''}|;
printf(" | minimum marks that should be achived in each subject : 25M
                                                                   |\langle n'' \rangle;
printf(" | If the Candidate fails in Even a Single Subject His Final Result Will Be Given as 'FAIL'
|n''\rangle;
printf(" #-----#\n"):
while(1){
int n;
printf("enter 1 to continue 0 to stop:");
scanf("%d",&n);
if(n==0)
{exit(0);
}
printf("-----\n");
printf("
             Enter student Number
scanf("%d",&sno);
printf("
            Enter sudent name
                                 : '');
scanf("%s",name);
             Enter marks in PPS
                                  : ");
printf("
scanf("%d",&m1);
printf("
             Enter marks in Maths : ");
scanf("%d",&m2);
printf("
                                 : ");
             Enter marks in Chemistry
scanf("%d",&m3);
             Enter marks in Third-language : ");
printf("
```

Reading file:

```
#include<stdio.h>
#include<stdlib.h>
int main()
{FILE *p;
p=fopen("Srm.dat","r");
int sno,m1,m2,m3,m4,m5,tot;
float avg;
char name[100];
while(feof(p)==0)
{ int t;
fscanf(p,"%20s%5d%5d%5d%5d%5d%5d",name,&sno,&m1,&m2,&m3,&m4,&m5);
tot=m1+m2+m3+m4+m5;
avg=tot/5;
printf("
                  \n");
printf("
              \n");
printf("
              # ##*#*#*#*#*#*#*#*#*#*#*#
                                                                \n");
printf("
                                                                \n");
printf("
              ##
                          STUDENT MARKS MEMO
                                                                \n");
printf("
                                                                \n");
printf("
              # ##*#*#*#*#*#*#*#*#*#*#*#*#*#*#
                                                                \n");
printf("
              \n");
printf("\n");
printf("
                         -----\n");
printf("
                                : %s\n " ,name);
             Student Name
                               : %d\n " ,sno );
printf("
            Student Number
            Marks obtained in PPS : %d\n " ,m1 );
printf("
            Marks obtained in Maths : %d\n " ,m2 );
printf("
            Marks obtained in Chemistry : %d\n " ,m3 );
printf("
            Marks obtained in Thrid-Language : %d\n " ,m4 );
printf("
```

```
printf("
                 Marks obtained in Civil & Mechanical : %d\n " ,m5 );
                                       : %d\n "
printf("
                 Total
                                                        ,tot );
printf("
                                         : %.2f\n"
                 Average
                                                            ,avg );
if(m1>=25&&m2>=25&&m3>=25&&m4>=25&&m5>=25)
                                         : PASS\n "
{printf("
                  Status
                                                                );}
else
{printf("
                                         : FAIL\n "
                  Status
                                                               );}
printf("
                 Failed in
                                        : ");
if(m1<25)
printf("PPS ");
if(m2<25)
printf("Maths ");
if(m3<25)
printf("Chemistry ");
if(m4<25)
printf("Third-Language ");
if(m5<25)
printf("Civil&Mech \n");
printf("None\n");
printf("
printf("\n");
}
fclose(p);
return 0;
```

}

Input and Output:

Result: The respective student's marks in the particular subjects will be portrayed or depicted in a organized manner and his/her status of either pass or fail is also exhibited.