Code:

#include <stdio.h>

#include <conio.h>

#include <stdlib.h>

void addstudent();

void studentrecord();

void searchstudent();

void delete();

struct student

{

char first\_name[20];

char last\_name[20];

int roll\_no;

char Class[10];

char vill[20];

float per;

};

void main()

{

int choice;

while (choice != 5)

{

printf("\t\t\t=====STUDENT DATABASE MANAGEMENT SYSTEM=====");

printf("\n\n\n\t\t\t\t 1. Add Student\n");

printf("\t\t\t\t 2. Display Students Records\n");

printf("\t\t\t\t 3. Search Student\n");

printf("\t\t\t\t 4. Delete Student\n");

printf("\t\t\t\t 5. Exit\n");

printf("\t\t\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

printf("\t\t\t\t ");

scanf("%d", &choice);

switch (choice)

{

case 1:

addstudent();

break;

case 2:

studentrecord();

printf("\t\t\t\t press any key to exit..... \n");

break;

case 3:

searchstudent();

printf("\n\t\t\t\t Press any key to exit.......\n");

break;

case 4:

delete ();

printf("\n\t\t\t\tPress any key to exit.......\n");

break;

case 5:

printf("\n\t\t\t\tThank you, for used this software.\n\n");

exit(0);

break;

default:

printf("\n\t\t\t\t\tEnter a valid number\n\n");

printf("\t\t\t\tPress any key to continue.......");

break;

}

}

}

void addstudent()

{

char another;

FILE \*fp;

int n, i;

struct student info;

do

{

printf("\t\t\t\t=======Add Students Info=======\n\n\n");

fp = fopen("information.txt", "a"); // use can give any file name. Give the name with extention or without extention.

printf("\n\t\t\tEnter First Name : ");

scanf("%s", &info.first\_name);

printf("\n\t\t\tEnter Last Name : ");

scanf("%s", &info.last\_name);

printf("\n\t\t\tEnter Roll-No : ");

scanf("%d", &info.roll\_no);

printf("\n\t\t\tEnter Class(course) : ");

scanf("%s", &info.Class);

printf("\n\t\t\tEnter Address : ");

scanf("%s", &info.vill);

printf("\n\t\t\tEnter Percentage : ");

scanf("%f", &info.per);

printf("\n\t\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

if (fp == NULL)

{

fprintf(stderr, "can't open file");

}

else

{

printf("\t\t\tRecord stored successfuly\n");

}

fwrite(&info, sizeof(struct student), 1, fp);

fclose(fp);

printf("\t\t\tYou want to add another record?(y/n) : ");

scanf("%s", &another);

} while (another == 'y' || another == 'Y');

}

void studentrecord()

{

FILE \*fp;

struct student info;

fp = fopen("information.txt", "r");

printf("\t\t\t\t=======STUDENTS RECORD=======\n\n\n");

if (fp == NULL)

{

fprintf(stderr, "can't open file\n");

exit(0);

}

else

{

printf("\t\t\t\tRECORDS :\n");

printf("\t\t\t\t\_\_\_\_\_\_\_\_\_\_\_\n\n");

}

while (fread(&info, sizeof(struct student), 1, fp))

{

printf("\n\t\t\t\t Student Name : %s %s", info.first\_name, info.last\_name);

printf("\n\t\t\t\t Roll NO : %d", info.roll\_no);

printf("\n\t\t\t\t Class : %s", info.Class);

printf("\n\t\t\t\t Village/City : %s", info.vill);

printf("\n\t\t\t\t Percentage : %f%", info.per);

printf("\n\t\t\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

}

fclose(fp);

}

void searchstudent()

{

struct student info;

FILE \*fp;

int roll\_no, found = 0;

fp = fopen("information.txt", "r");

printf("\t\t\t\t=======SEARCH STUDENTS RECORD=======\n\n\n");

printf("\t\t\tEnter the roll no : ");

scanf("%d", &roll\_no);

while (fread(&info, sizeof(struct student), 1, fp) > 0)

{

if (info.roll\_no == roll\_no)

{

found = 1;

printf("\n\n\t\t\tStudent Name : %s %s", info.first\_name, info.last\_name);

printf("\n\t\t\tRoll NO : %d", info.roll\_no);

printf("\n\t\t\tClass : %s", info.Class);

printf("\n\t\t\tAddress : %s", info.vill);

printf("\n\t\t\tPercentage : %f%", info.per);

printf("\n\t\t\t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

}

}

if (!found)

{

printf("\n\t\t\tRecord not found\n");

}

fclose(fp);

}

void delete()

{

struct student info;

FILE \*fp, \*fp1;

int roll\_no, found = 0;

printf("\t\t\t\t=======DELETE STUDENTS RECORD=======\n\n\n");

fp = fopen("information.txt", "r");

fp1 = fopen("temp.txt", "w");

printf("\t\t\t\tEnter the roll no : ");

scanf("%d", &roll\_no);

if (fp == NULL)

{

fprintf(stderr, "can't open file\n");

exit(0);

}

while (fread(&info, sizeof(struct student), 1, fp))

{

if (info.roll\_no == roll\_no)

{

found = 1;

}

else

{

fwrite(&info, sizeof(struct student), 1, fp1);

}

}

fclose(fp);

fclose(fp1);

if (!found)

{

printf("\n\t\t\t\tRecord not found\n");

}

if (found)

{

remove("information.txt");

rename("temp.txt", "information.txt");

printf("\n\t\t\t\tRecord deleted succesfully\n");

}

}

Output:









