

STUDENT RECORD SYSTEM

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#include<windows.h>
#include<string.h>
void gotoxy(int ,int );
void menu();
void add();
void view();
void search();
void modify();
void deleterec();
struct student
{
    char name[20];
    char mobile[10];
    int rollno;
    char course[20];
    char branch[20];
};
int main()
{
    gotoxy(15,8);
    printf("<--:Student Record Management System:-->");
    gotoxy(19,15);
    printf("Press any key to continue.");
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    getch();
    menu();
    return 0;
}
void menu()
{
    int choice;
    system("cls");
    gotoxy(10,3);
    printf("<--:MENU:-->");
    gotoxy(10,5);
    printf("Enter appropriate number to perform following task.");
    gotoxy(10,7);
    printf("1 : Add Record.");
    gotoxy(10,8);
    printf("2 : View Record.");
    gotoxy(10,9);
    printf("3 : Search Record.");
    gotoxy(10,10);
    printf("4 : Modify Record.");
    gotoxy(10,11);
    printf("5 : Delete.");
    gotoxy(10,12);
    printf("6 : Exit.");
    gotoxy(10,15);
    printf("Enter your choice.");
    scanf("%d",&choice);
    switch(choice)
    {
    case 1:
```

```
        add();
        break;

    case 2:
        view();
        break;

    case 3:
        search();
        break;

    case 4:
        modify();
        break;

    case 5:
        deleterec();
        break;

    case 6:
        exit(1);
        break;

    default:
        gotoxy(10,17);
        printf("Invalid Choice.");
    }
}
void add()
{
```

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FILE *fp;
struct student std;
char another = 'y';
system("cls");

fp = fopen("record.txt", "ab+");
if(fp == NULL){
    gotoxy(10,5);
    printf("Error opening file");
    exit(1);
}
fflush(stdin);
while(another == 'y')
{
    gotoxy(10,3);
    printf("<---:ADD RECORD:-->");
    gotoxy(10,5);
    printf("Enter details of student.");
    gotoxy(10,7);
    printf("Enter Name : ");
    //    gets(std.name);///???
    gets(std.name);
    gotoxy(10,8);
    printf("Enter Mobile Number : ");
    gets(std.mobile);
    gotoxy(10,9);
    printf("Enter Roll No : ");
    scanf("%d",&std.rollno);
    fflush(stdin);
    gotoxy(10,10);

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        printf("Enter Course : ");
//    gets(std.course);///???
    gets(std.course);
    gotoxy(10,11);
    printf("Enter Branch : ");
    gets(std.branch);
//    gotoxy(10,12);
//    printf("Enter Father's Name : ");
//    gets(std.fathername);
    fwrite(&std,sizeof(std),1,fp);
    gotoxy(10,15);
    printf("Want to add of another record? Then press 'y' else
'n'.");
    fflush(stdin);
//    another = getch();///???
    another = getch();
    system("cls");
    fflush(stdin);
}
fclose(fp);
gotoxy(10,18);
printf("Press any key to continue.");
getch();
menu();
}
void view()
{
    FILE *fp;
    int i=1,j;
    struct student std;

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system("cls");
gotoxy(10,3);
printf("<--:VIEW RECORD:-->");
gotoxy(10,5);
printf("S.No   Name of Student       Mobile No   Roll No   Course
Branch");
gotoxy(10,6);
printf("-----");
fp = fopen("record.txt","rb+");
if(fp == NULL){
    gotoxy(10,8);
    printf("Error opening file.");
    exit(1);
}
j=8;
while(fread(&std,sizeof(std),1,fp) == 1){
    gotoxy(10,j);

printf("%-7d%-22s%-12s%-9d%-12s%-12s",i,std.name,std.mobile
,std.rollno,std.course,std.branch);
    i++;
    j++;
}
fclose(fp);
gotoxy(10,j+3);
printf("Press any key to continue.");
getch();
menu();
}
void search()

```

```

{
    FILE *fp;
    struct student std;
    char stname[20];
    system("cls");
    gotoxy(10,3);
    printf("<---:SEARCH RECORD:-->");
    gotoxy(10,5);
    printf("Enter name of student : ");
    fflush(stdin);
    gets(stname);
    fp = fopen("record.txt","rb+");
    if(fp == NULL){
        gotoxy(10,6);
        printf("Error opening file");
        exit(1);
    }
    while(fread(&std,sizeof(std),1,fp ) == 1){
        if(strcmp(stname,std.name) == 0){
            gotoxy(10,8);
            printf("Name : %s",std.name);
            gotoxy(10,9);
            printf("Mobile Number : %s",std.mobile);
            gotoxy(10,10);
            printf("Roll No : %d",std.rollno);
            gotoxy(10,11);
            printf("Course : %s",std.course);
            gotoxy(10,12);
            printf("Branch : %s",std.branch);
        }
    }
}

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    }
    fclose(fp);
    gotoxy(10,16);
    printf("Press any key to continue.");
    getch();
    menu();
}

void modify()
{
    char stname[20];
    FILE *fp;
    struct student std;
    system("cls");
    gotoxy(10,3);
    printf("<--:MODIFY RECORD:-->");
    gotoxy(10,5);
    printf("Enter name of student to modify: ");
    fflush(stdin);
    gets(stname);
    fp = fopen("record.txt","rb+");
    if(fp == NULL){
        gotoxy(10,6);
        printf("Error opening file");
        exit(1);
    }
    rewind(fp);
    fflush(stdin);
    while(fread(&std,sizeof(std),1,fp) == 1)
    {
        if(strcmp(stname,std.name) == 0){

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        gotoxy(10,7);
        printf("Enter name: ");
        gets(std.name);
        gotoxy(10,8);
        printf("Enter mobile number : ");
        gets(std.mobile);
        gotoxy(10,9);
        printf("Enter roll no : ");
        scanf("%d",&std.rollno);
        gotoxy(10,10);
        printf("Enter Course : ");
        fflush(stdin);
        gets(std.course);
        gotoxy(10,11);
        printf("Enter Branch : ");
        fflush(stdin);
        gets(std.branch);
        fseek(fp ,-sizeof(std),SEEK_CUR);
        fwrite(&std,sizeof(std),1,fp);
        break;
    }
}
fclose(fp);
gotoxy(10,16);
printf("Press any key to continue.");
getch();
menu();
}
void deleterec()
{

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```

char stname[20];
FILE *fp,*ft;
struct student std;
system("cls");
gotoxy(10,3);
printf("<--:DELETE RECORD:-->");
gotoxy(10,5);
printf("Enter name of student to delete record : ");
fflush(stdin);
gets(stname);
fp = fopen("record.txt","rb+");
if(fp == NULL){
    gotoxy(10,6);
    printf("Error opening file");
    exit(1);
}
ft = fopen("temp.txt","wb+");
if(ft == NULL){
    gotoxy(10,6);
    printf("Error opening file");
    exit(1);
}
while(fread(&std,sizeof(std),1,fp) == 1){
    if(strcmp(stname,std.name)!=0)
        fwrite(&std,sizeof(std),1,ft);
}
fclose(fp);
fclose(ft);
remove("record.txt");
rename("temp.txt","record.txt");

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gotoxy(10,10);
printf("Press any key to continue.");
getch();
menu();
}
void gotoxy(int x,int y)
{

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COORD c;

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c.X=x;

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c.Y=y;

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SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE),c);
}

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