STUDENT RECORD SYSTEM

```c
#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.");
```

```c
        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:
```

```c
            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()
{
```

```c
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);
```

```c
        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;
```

```c
    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()
```

```c
{
    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);
        }
```

```c
        }
        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){
```

```c
            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()
{
```

```c
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");
```

```c
    gotoxy(10,10);
    printf("Press any key to continue.");
    getch();
    menu();
}
void gotoxy(int x,int y)
{
        COORD c;
        c.X=x;
        c.Y=y;

SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE),c);
}
```
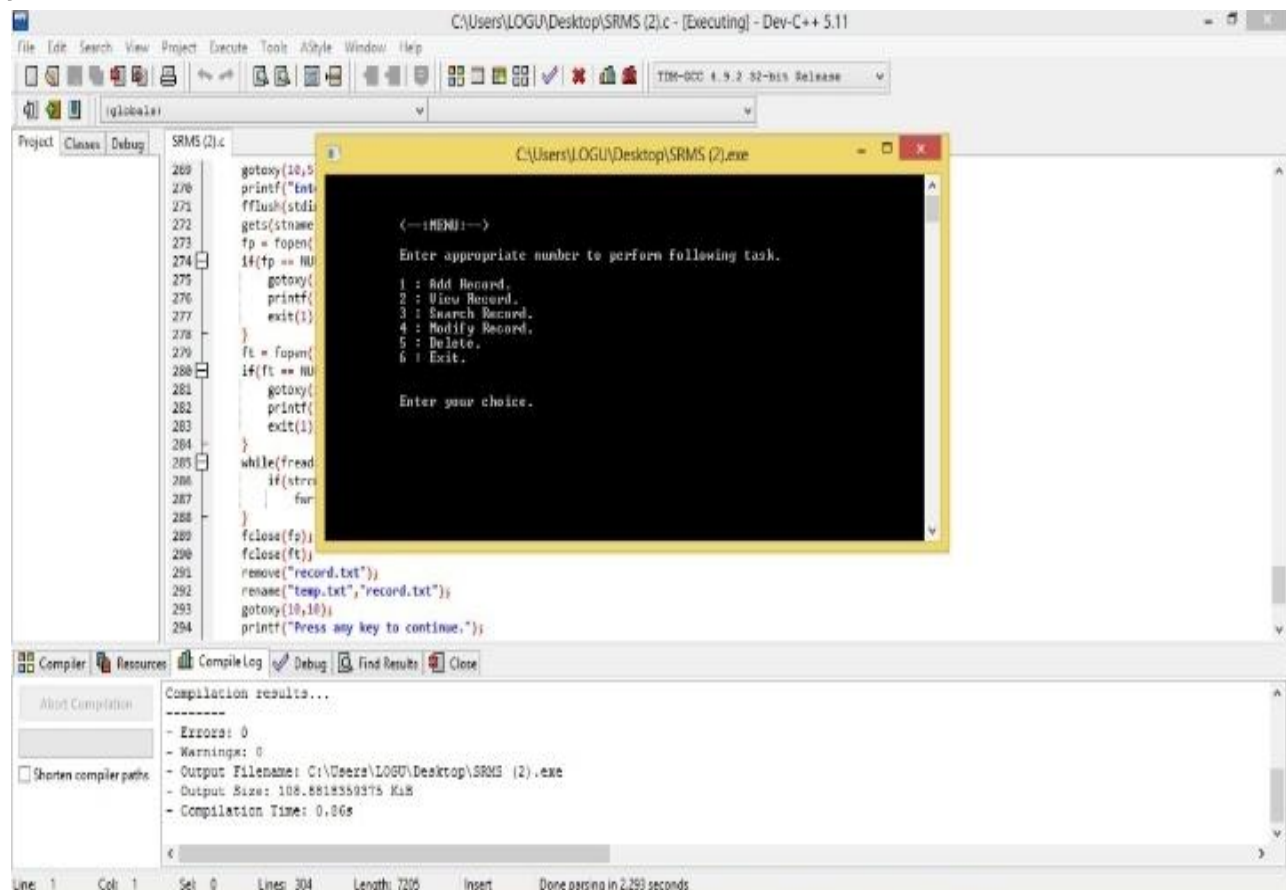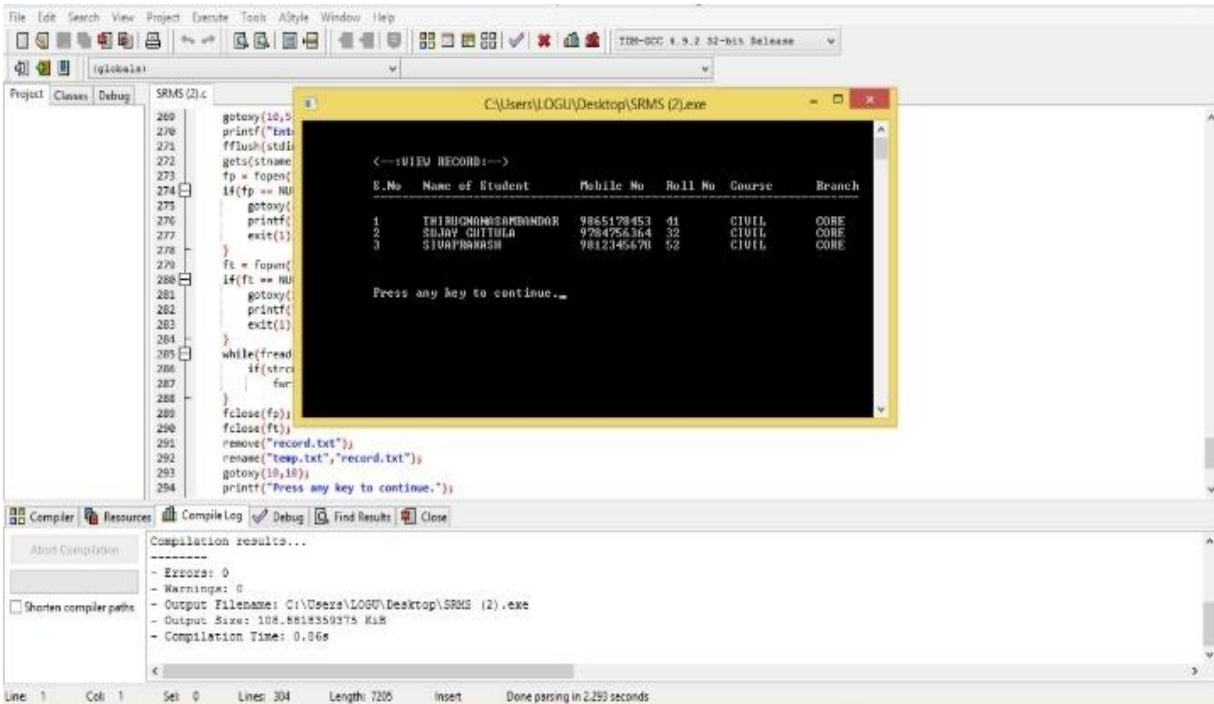
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THANK YOU.