



# **School Billing System for Administration (Using C)**

**By**

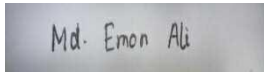
**Md. Emon Ali**  
(171-35-1927)

A Project(SWE-231) is submitted in fulfillment of the requirement for the  
degree of Bachelor of Science in Software Engineering

**Department of Software Engineering**  
**DAFFODIL INTERNATIONAL UNIVERSITY**  
**Fall-2017**

## DECLARATION

It hereby, declare that this project - “School Billing System for Administration (using C)” under Supervision of Dr. Md. Asraf Ali, Associate Professor, Department of Software Engineering, Daffodil International University. It is also declared that neither this project nor any part of this has been summited elsewhere for award of any degree.



.....  
**Student:**

Name: Md. Emon Ali

Id: 171-35-1927

Batch: 22th

Department of Software Engineering

Faculty of Science & Information Technology

Daffodil International University

**Certified By:**

.....  
Dr. Md. Asraf Ali

Associate Professor

Department of Software Engineering

Faculty of Science & Information Technology

Daffodil International University

## ACKNOWLEDGEMENT

First and foremost, I am thankful to Almighty Allah for his blessings on me to contribute to the knowledge of world. I am particularly grateful to my supervisor and advisor, **Dr. Md. Asraf Ali**, for his expertise and advice, inspiring and challenging discussions, and endless patience that have supported me throughout this work. I would also like to thank our department head, **Professor Dr. Touhid Bhuiyan**, for his enthusiastic guidance and excellent suggestion. In particular, I would like to thank our all batch mates (22th Batch) in the Software Engineering Department for an inspiring and supporting collaborative atmosphere. I would also like to mention all other faculty members, lab assistant and other staffs at the Department of Software Engineering and all students of this department, thanks for providing an excellent environment to work in. Last but not the least; I would like to thank my family and friends for constantly reminding me of the most important things in life and for always supporting me in critical situation.

## Table of Contents

DECLARATION.....	i
ACKNOWLEDGEMENT .....	ii
ABSTRACT.....	v
CHAPTER 1: INTRODUCTION .....	1
1.1    BACKGROUND .....	1
1.2    Motivation of the Project .....	1
1.3    Problem Statement .....	2
1.4    Project Question.....	2
1.5    Project Objective.....	2
1.6    Project Scope .....	2
1.7    Project organization .....	3
CHAPTER 2: LITERATURE REVIEW .....	4
CHAPTER 3: METHODOLOGY .....	5
3.1 System Model .....	5
3.2 Requirement Analysis .....	5
3.3 Login Panel for Admin .....	5
3.4 Homepage or Account Type .....	6
3.5 Student's Account Panel for Admin .....	7
3.6 Teacher's/Staff's Account Panel for Admin .....	8
CHAPTER 4: RESULTS & DISCUSSION .....	9
4.1 Login Panel for Admin .....	9
4.2 Account Type.....	10
4.3 Student Account Menu .....	11
4.3.1 Add Student's Record .....	12
4.3.2 Show All Student's Record.....	12
4.3.3 Delete Record.....	13
4.3.4 Calculate Fee.....	13
4.3.5 Show Calculate Fee.....	14
4.4 Teacher Account Menu.....	15
4.4.1 Add Teacher/Staff's Record.....	16
4.4.2 Show All Teacher/Staff's Record .....	16
4.4.3 Modify Teacher/Staff's Records.....	17
4.4.4 Calculate Salary .....	17
4.4.5 Show Salary .....	18
4.5 Exit Button.....	18
CHAPTER 5: CONCLUSION AND RECOMMENDATION.....	19
5.1 Findings and Contribution .....	19

5.2 Recommendation for Future Works.....	19
REFFERANCE .....	20
APPENDIX-A.....	21
APPENDIX-B.....	22
APPENDIX-C.....	24
APPENDIX-D.....	26
APPENDIX-E.....	31
APPENDIX-F .....	32
APPENDIX-G.....	33
APPENDIX-H.....	36
APPENDIX-I.....	41
APPENDIX-J.....	48
APPENDIX-K.....	52
APPENDIX-L .....	54
APPENDIX-M.....	56
APPENDIX-N.....	56
APPENDIX-O.....	57
APPENDIX-P .....	57
APPENDIX-Q.....	58

## **School Billing System for Administration (Using C)**

### **ABSTRACT**

The purpose of this project is to develop a school management to assist in the management of fees and salary which ease to process of doing this job than earlier pen and paper based management. So, the development of the software application- “School Billing System” introduces the automation in the organizations serving this purpose.

This project is carried out as a partial fulfillment of all document of a school. An Accountant or Administration regardless of the number of teacher, staff and students must maintain all records pertaining to payment or fees system digitally. This application will help to calculate the students fee teacher’s salary and other relevant calculate automatically.

# **CHAPTER 1: INTRODUCTION**

## **1.1 BACKGROUND**

In this 21<sup>st</sup> century, we are living in information era, amassing data is facile and storing it less expensive. Day by day information is increasing in all sectors, but ability to understand and make use of that information does not growth. The school billing system project in c keeps record all the students, teachers and staffs working in the institution. The program is run by the administrator who can add, record, modify, if unnecessary then delete record and also find records according to the need.

This basic feature of this project is that it shows fees that the students need to pay or dues and advance of the students. It also records the information related to salary that is to be provided to teachers and staffs working in the organizations.

## **1.2 Motivation of the Project**

The main motive of this project is to computerize the process of students and teachers details and also generate their fees or payments in a school. Like for a Student it's calculate his or her fees of the month and also how many months he or she wants to pay. And for a Teacher it's calculate his or her month salary depend on his or her total class of the month.

### **1.3 Problem Statement**

Suppose, Bashundhara High School (BHS) is a most popular privet school in Bangladesh. According to BHS management I observed that, in the school the management of this school they doesn't computerize their student's, teacher's or stuffs details. Including student's fees, due etc. and also doesn't computerize teacher's payment document. Computerize all detail's and also payment or fees system, this is a important matter for my project.

### **1.4 Project Question**

- How much will a student pay if she or she pay his or her fees in current time or months?
- How much money a teacher or stuff gets each month?

### **1.5 Project Objective**

- Can add and maintain information of students and teachers.
- Can calculate students fees and payment of teachers.
- If want, then can delete all information of both teachers and students.
- Can Modify a students or teachers information.

### **1.6 Project Scope**



Main aim of developing School Billing System is to provide an easy way not only to automate all functionalities involved managing leaves and payroll for the teachers of the school. But also to provide full functional reports to management of school with the necessary details. It can properly add students, teachers or stuffs both details and also calculate fees or payment item. This is a simple way to put all the information in one place. This system will have a file management when it wears the records of teachers/students. The system also covers the tracking of salary/fees of stuff/students.

## **1.7 Project organization**

In chapter one, I discuss background of my project. Here I also discuss motivation of the project, problem statement, project objective and my project scope. In chapter two I try to represent previous work, which is related with my work. In chapter three, I discuss my project Methodology. In chapter four, I show experiment result of my project. In chapter five, I will discuss with conclusion part.

## **CHAPTER 2: LITERATURE REVIEW**

There are student's, teacher's, staff's all people are plays a great role in a school. There all details of student's, teacher's and staff's note down like a Registry paper. There are no data like properly computerized. So, that's the reason for this project. In this project, a Admin can computerize all data through this program. This can perfectly memorize all details of student's, teacher's, and staff. This also can calculate a student fees per month or how many month he/she due or he/she doesn't give money for education and also can perfectly calculate how much his/her due and also total count. Same things happens for the teacher/staff. So this program possibly can help to adjust all details and all payment or fees.

## CHAPTER 3: METHODOLOGY

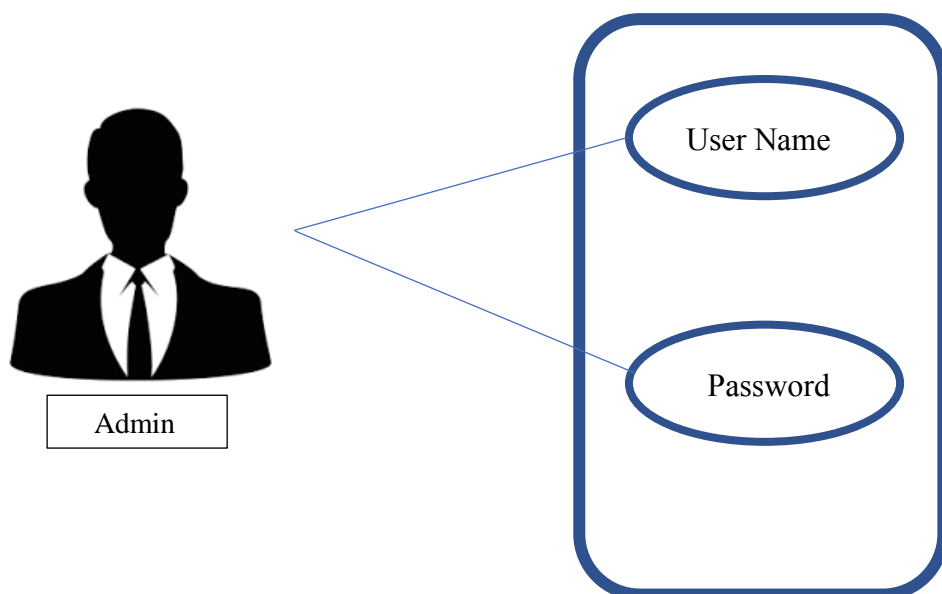
### 3.1 System Model

In this project I create all option for administration who can add data, delete data, show data, update data, search data and calculate salary and fees. There only admin can do all things, there is no user, who can add or calculate something like that.

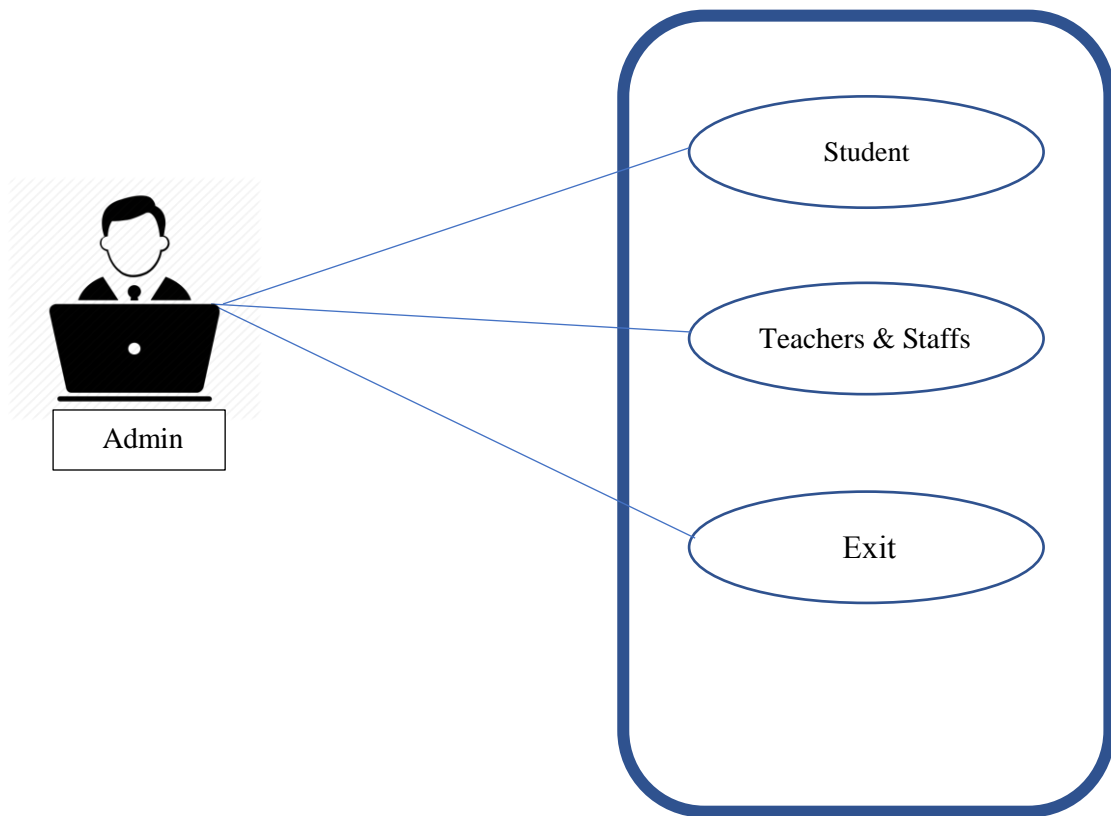
### 3.2 Requirement Analysis

To complete this project successfully I badly need to use some hardware as well as some software too. Mainly I use IDE Code-Blocks compiler to run this application and for the purpose to edit. And I also use laptop to run this IDE too. Those things are important as my project.

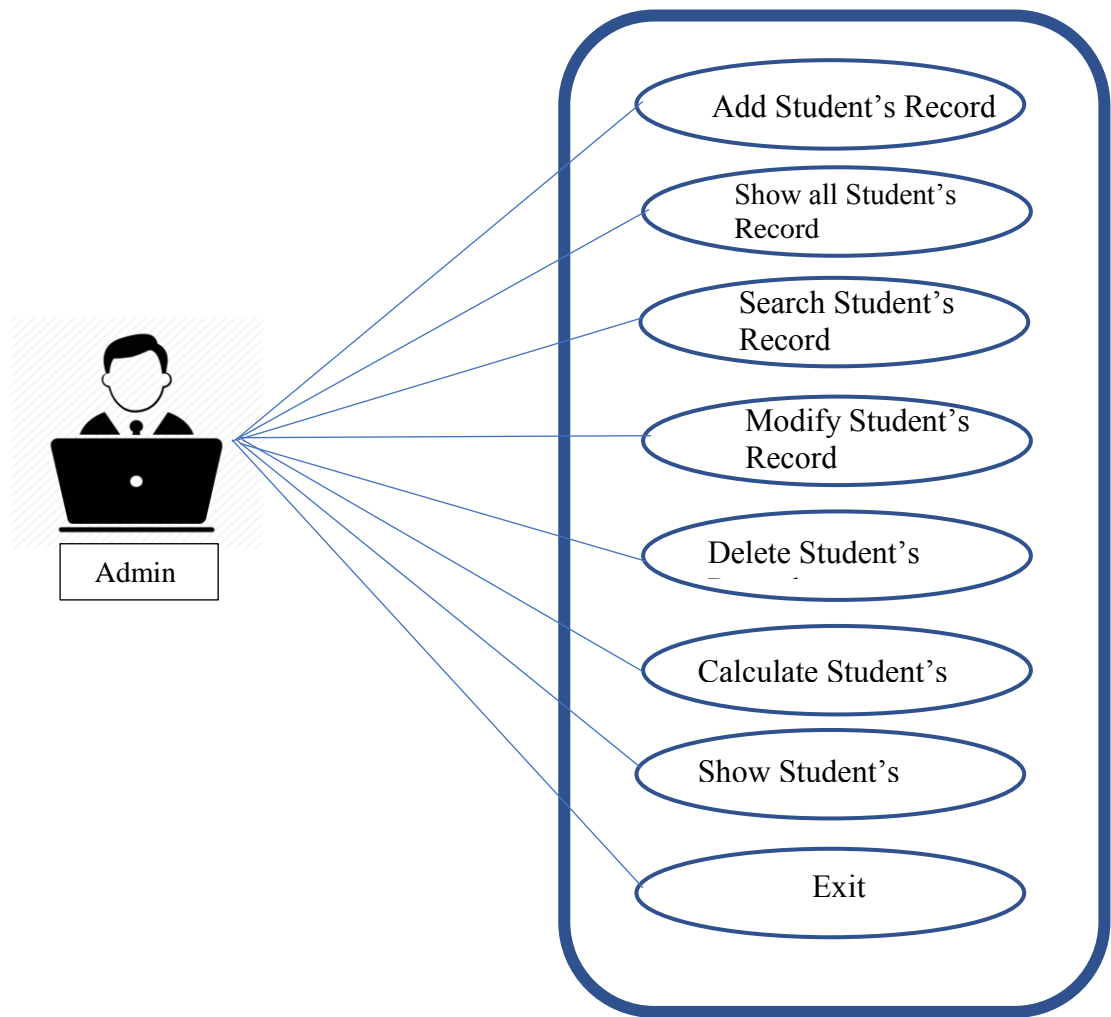
### 3.3 Login Panel for Admin



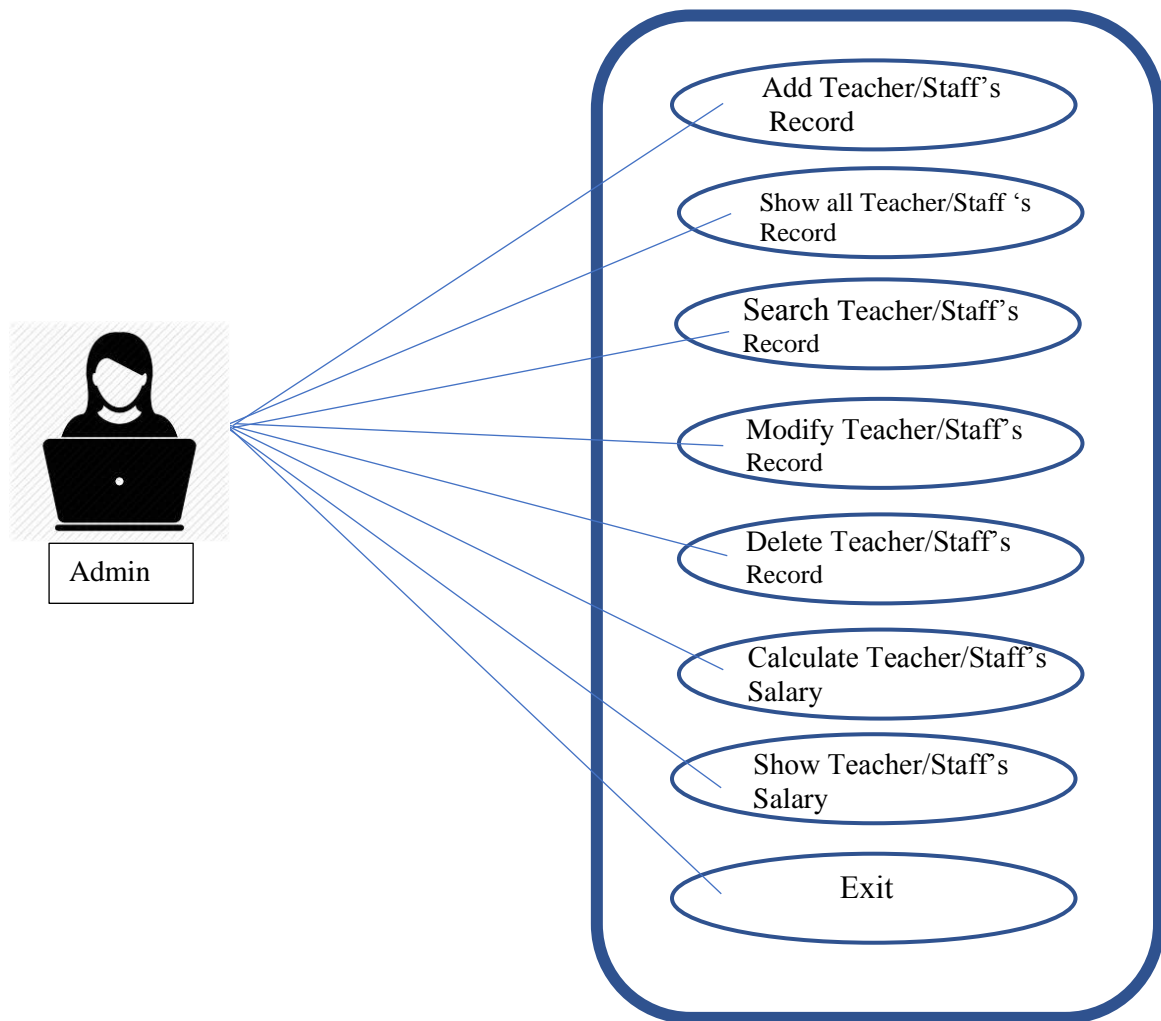
### 3.4 Homepage or Account Type



### 3.5 Student's Account Panel for Admin



### 3.6 Teacher's/Staff's Account Panel for Admin

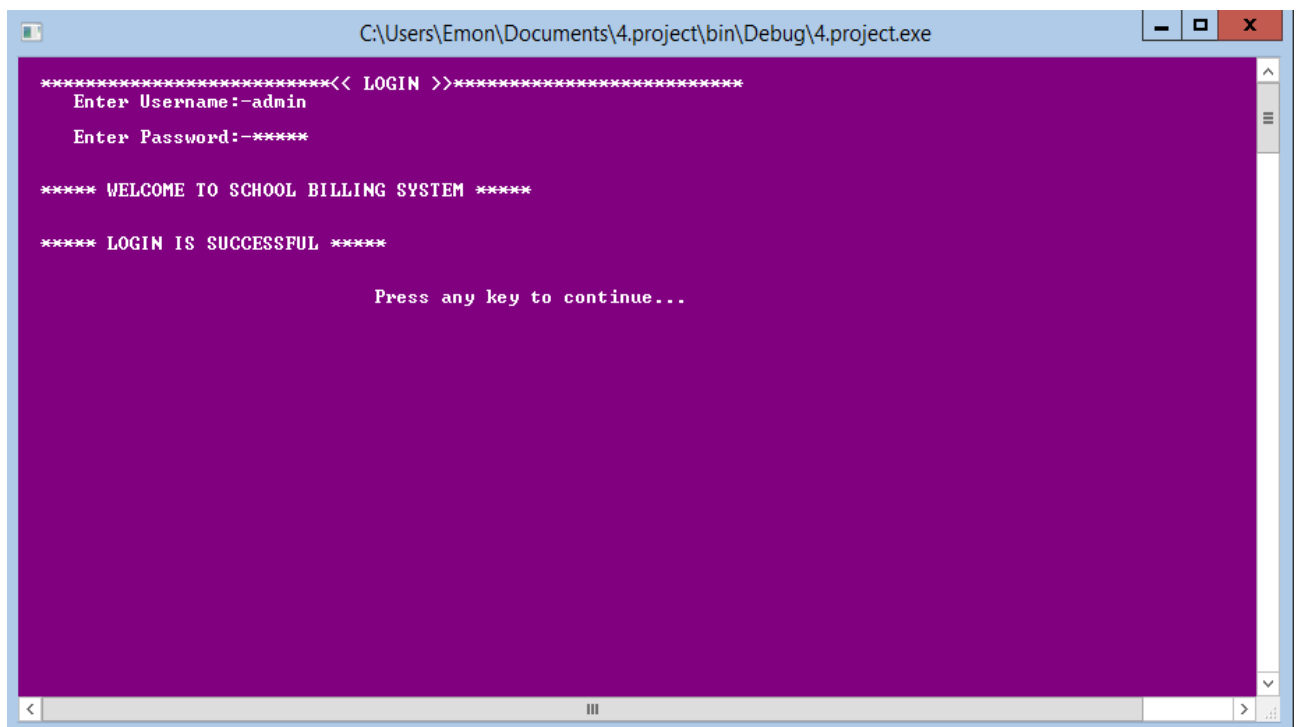


## CHAPTER 4: RESULTS & DISCUSSION

In the previous section, there was a discussion about methodology. How this project work and how it is done by the project manager and user. In this section, the result means the output of this project will be discussed shortly with output window.

### 4.1 Login Panel for Admin

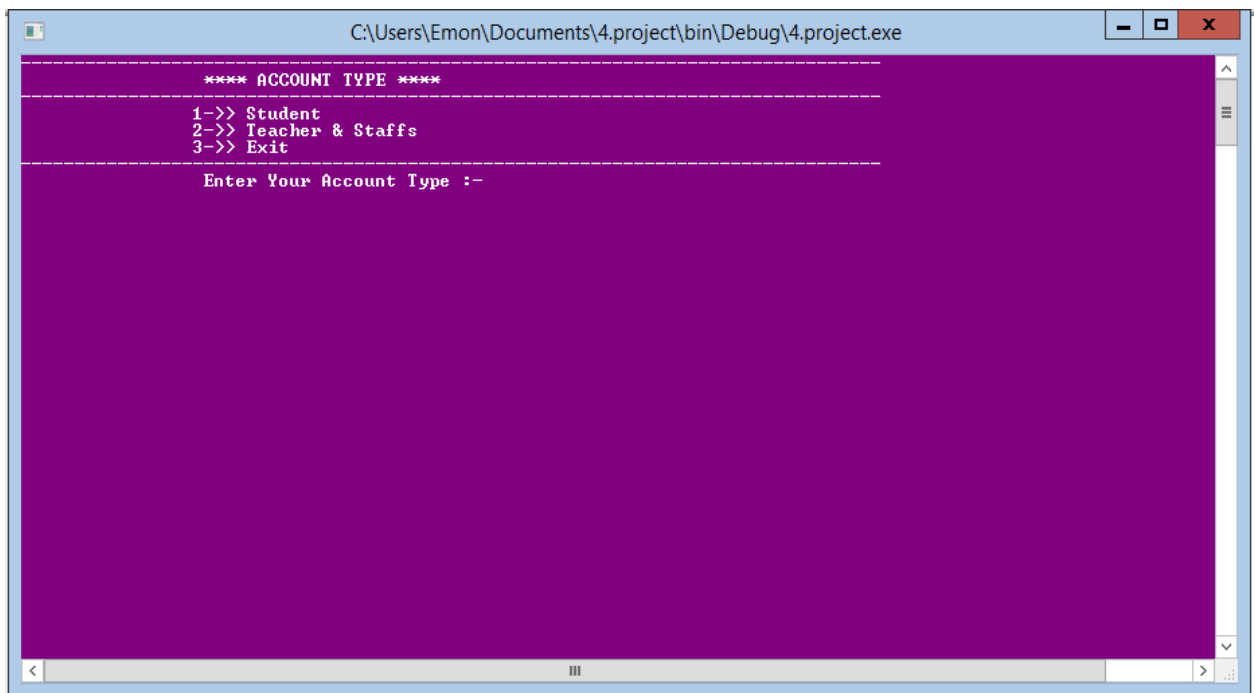
In this section, Admin have to login. For login here set a username and password. Using this username and password, Admin can go through into main program. If the username or password doesn't match, then Admin get a notification that "Sorry!!! Login Unsuccessful"



**Fig 4.1: Login Panel for Admin**

## 4.2 Account Type

In this section, Admin can see Account list of Student's and Teacher/Staff's. In the account of Student, there show all things about student. We can say this is like a profile. Like, in the account of Teacher/Staff's, Admin can know all details about Teacher/Staff's.

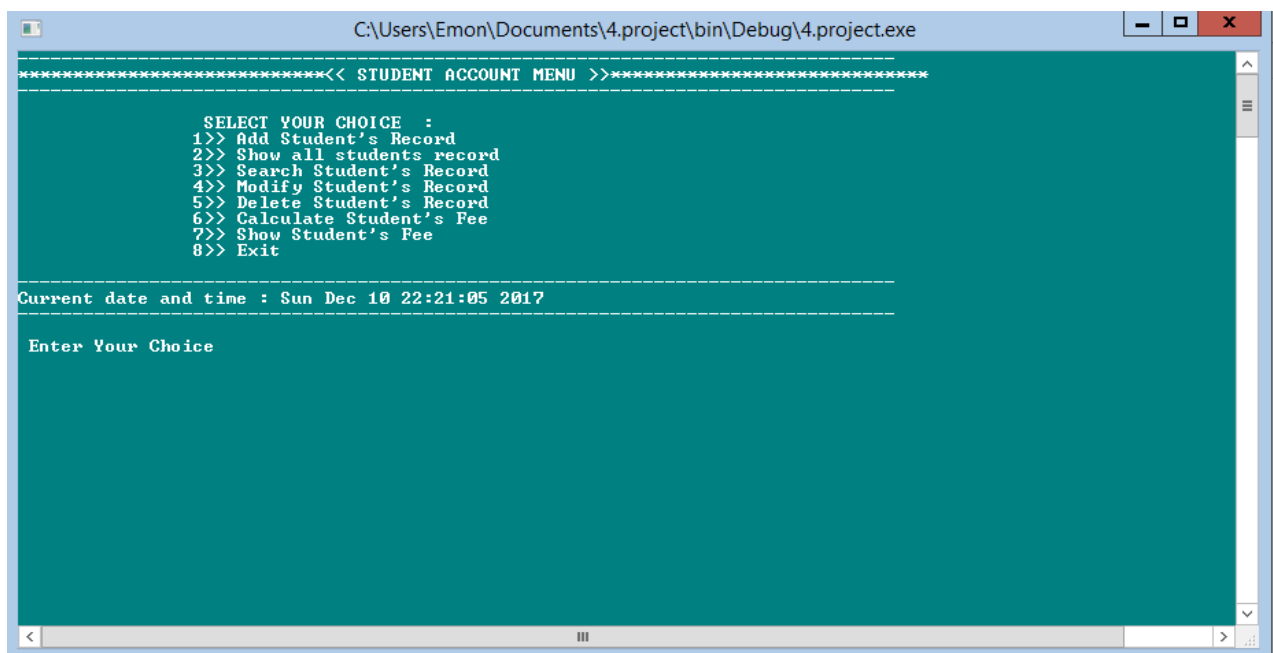


**Fig 4.2: Account Type**



### 4.3 Student Account Menu

In this section, Admin can add, show, search, modify record of a Student. And also can calculate and show Student's fee. When Admin add a student record, then Admin can show all record file which he add in the student's record. Same things happen when Admin search about a Student, But here Admin only can show that student details which name, roll or something he/she want to see. In the modify section, if Admin want to, then he/she can change all details of a Student. Next, in the Delete section, if Admin want to, then he/she can delete a specific details of a student. In the calculate section, Admin can calculate student's month fee. In the program there set a system, like timing. If in the calculate fee, admin set a month that a student want to paid 1 month. Then there only calculate fee 1000 taka with no due or extra value. But if there set month like 6 month, then there calculate month fee+ due fee and show result with total calculate data. Now all working things showing with screenshots in below:



**Fig 4.3: Student Account Menu**



### 4.3.3 Delete Record

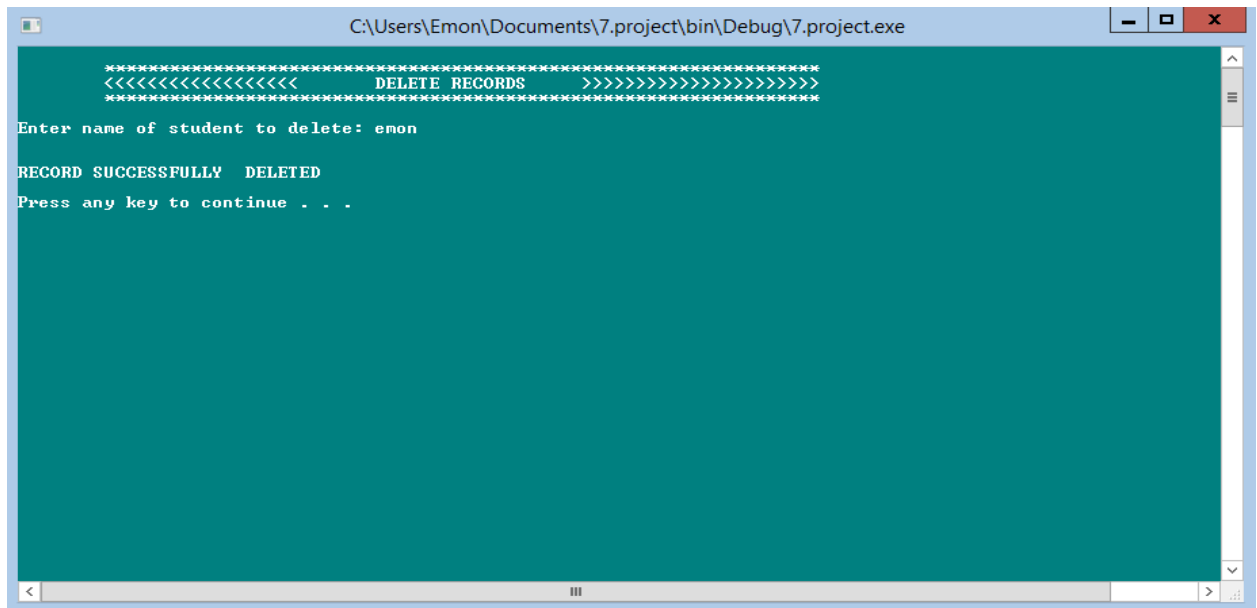


Fig: 4.3.3 Delete Record

### 4.3.4 Calculate Fee

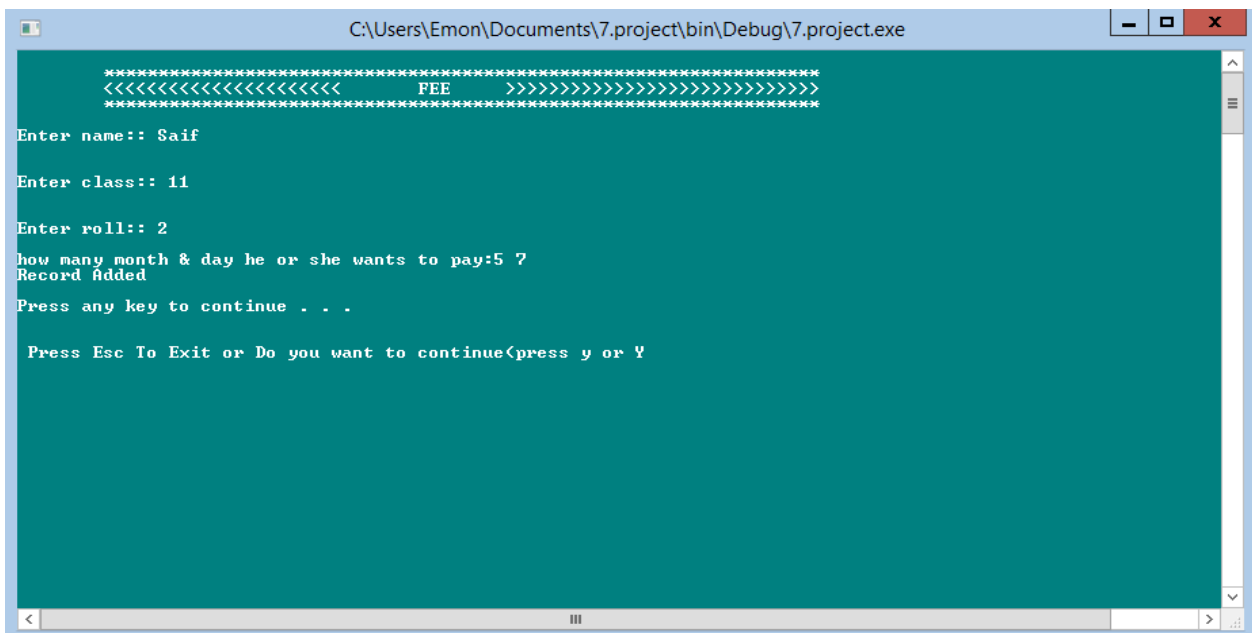
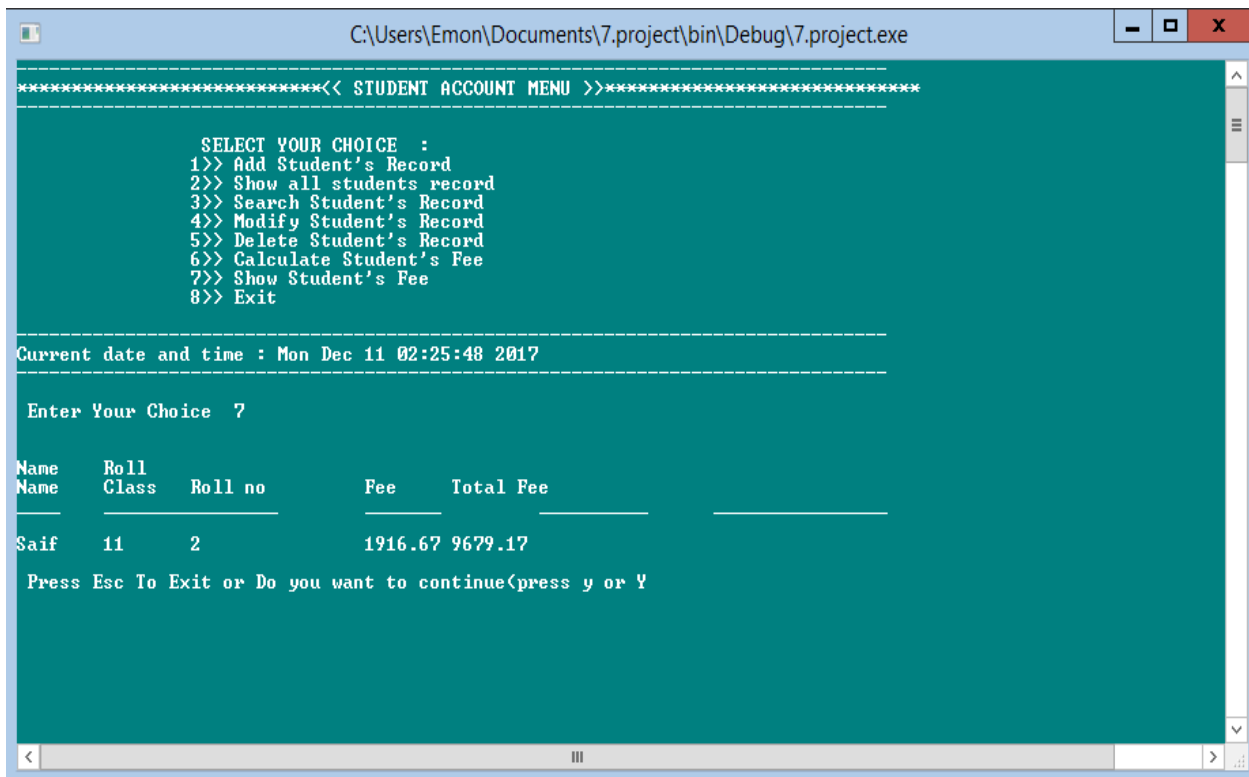


Fig: 4.3.4 Calculate & Show Fee

### 4.3.5 Show Calculate Fee



```
*****<< STUDENT ACCOUNT MENU >>*****  
  
SELECT YOUR CHOICE :  
1>> Add Student's Record  
2>> Show all students record  
3>> Search Student's Record  
4>> Modify Student's Record  
5>> Delete Student's Record  
6>> Calculate Student's Fee  
7>> Show Student's Fee  
8>> Exit  
  
-----  
Current date and time : Mon Dec 11 02:25:48 2017  
-----  
  
Enter Your Choice 7  
  
Name      Roll  
Name      Class  Roll no      Fee      Total Fee  
-----  
Saif      11      2          1916.67  9679.17  
  
Press Esc To Exit or Do you want to continue (press y or Y)
```

Fig: 4.3.5 Show Calculate Fee

## 4.4 Teacher Account Menu

In this section, Admin can add, show, search, modify record of a Teacher/Staffs. And also can calculate and show Teacher/Staffs fee. When Admin add a Teacher/Staffs record, then Admin can show all record file which he add in the Teacher/Staffs record. Same things happen when Admin search about a Teacher/Staffs, But here Admin only can show that student details which name, roll or something he/she want to see. In the modify section, if Admin want to, then he/she can change all details of a Teacher/Staffs. Next, in the Delete section, if Admin want to, then he/she can delete a specific details of a Teacher/Staff. In the calculate section, Admin can calculate Teacher/Staffs month fee. In the program there set a system, like timing. If in the calculate fee, admin set a month that a student want to paid 1 month. Then there only calculate fee 500 taka with no due or extra value per class, then there calculate month fee+ due fee and show result with total calculate data. Now all working things showing with screenshots in below:

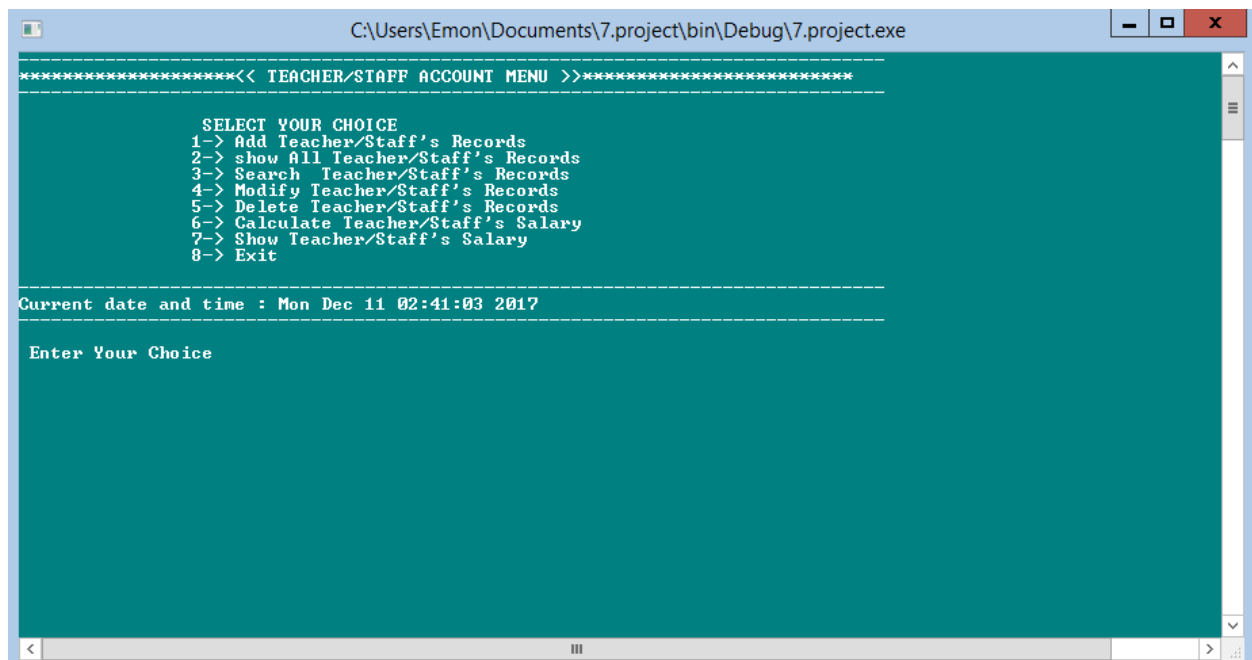
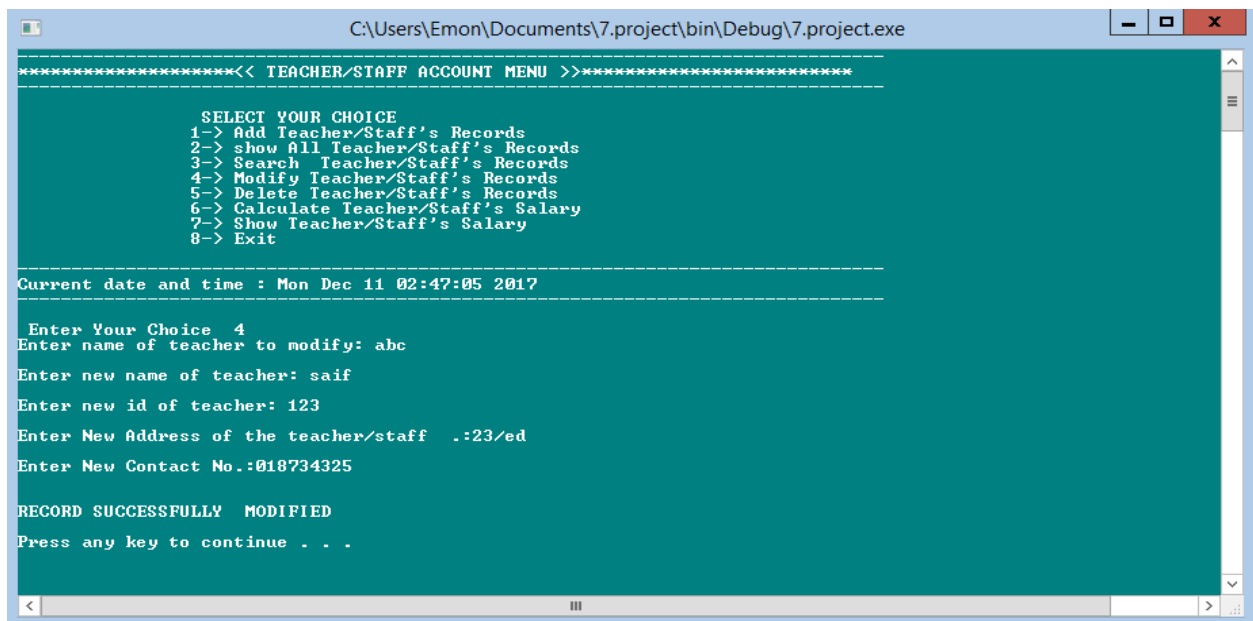


Fig: 4.4 Teacher Account Menu

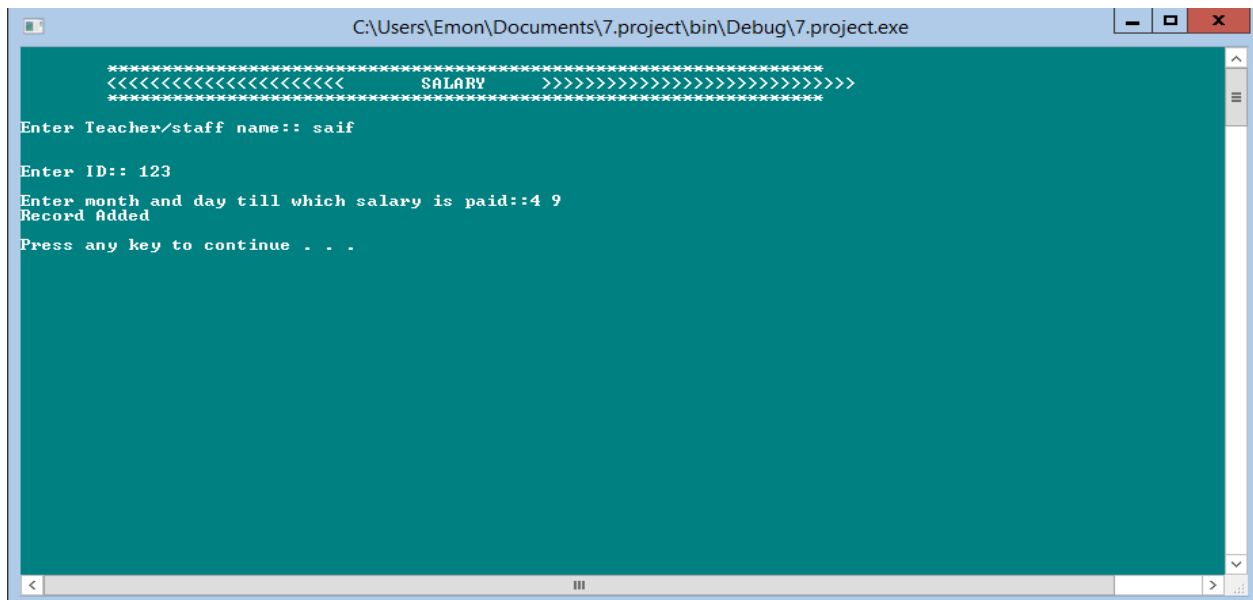


### 4.4.3 Modify Teacher/Staff's Records



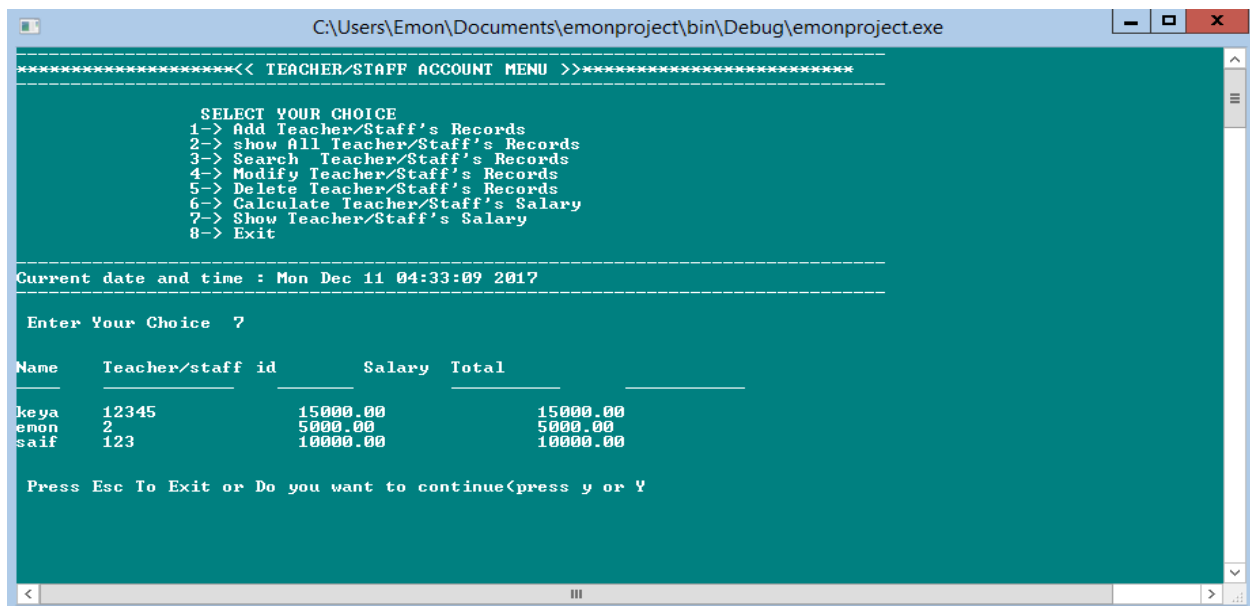
**Fig: 4.4.3 Show All Teacher/Staff's Record**

#### 4.4.4 Calculate Salary



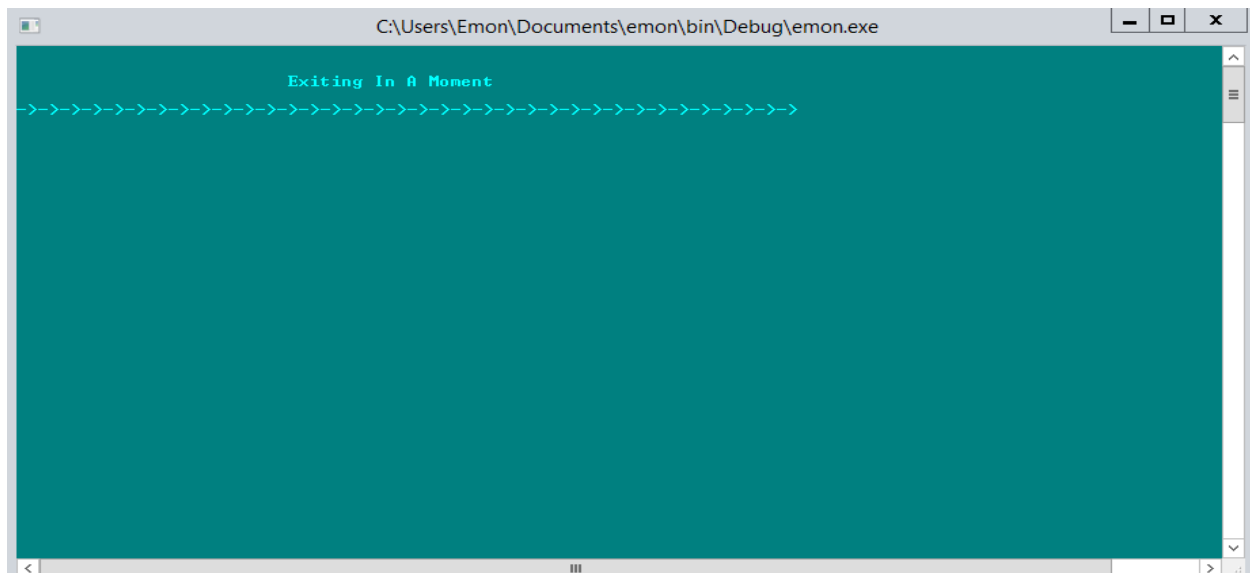
**Fig: 4.4.4 Calculate Salary**

#### 4.4.5 Show Salary



**Fig: 4.4.5 Show Salary**

## 4.5 Exit Button



**Fig: Exit Button**



## **CHAPTER 5: CONCLUSION AND RECOMMENDATION**

### **5.1 Findings and Contribution**

Due to the technological issue things are more challenging day by day. The more you know, the more you learn. From this findings this project is made by. Basically school's all details written by a paper mode. There is not much use to keep all details like computerize. For all data save this can be a good software or program whatever we say, this is very helpful.

### **5.2 Recommendation for Future Works**

In this project things is like mixed with the different question from different genre. But for the knowledge of every side a student or a person should have practiced all sectors means different types of subject. From the thinking of this, in future this project will come with some extraordinary features like, user part, because this time user can't do anything. Next time user can be capable of show their details and other feature. And also come with more update version.

## REFERANCE

- [1] Programming contest Data structure & Algorithm by Md. Mahabubul Hassan.
- [2] Data structure with lab by Seymour Lipschutz.
- [3] Structure and File handling basic from ([www.tutorialspoint.com](http://www.tutorialspoint.com)).
- [4] Computer programming with Tamim Shahriar Shubin.

## APPENDIX-A

Source code of this project:

```
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
#include<conio.h>
#include<windows.h>
struct dat//for date(month and day
{
    int d,m;//d=day,m=month
};
int clsanf();//check class (1-12)
struct student
{
    struct dat dt;
    float f,fine,tot,adv,due;//f=fee
    char n[50];
    int r,c;//roll and class
    char address[100];
    char contact [11];
} stud,s;
struct teacher
{
    struct dat dt;
    char n[50];
    float sal,adv,tot;
    int id,no;
    char address[100];
    char contact [11];
} tech,t;
int chkdat(int,int);// for checking date
void addrec(int);//for adding records
void modrec(int);//for modifying records
void searchrec(int);//for searching records
void delrec(int);//for deleting records
void salary(int);//for the calculation of salary of teacher and staff
FILE *fs,*ft;//file declaration

int mm,dd;//mm=month, dd=day
void ext();//for exiting
```

## APPENDIX-B

```
void login()
{
    int a=0,i=0;
    char uname[10],c=' ';
    char pword[10],code[10];
    char user[10]="emon";
    char pass[10]="emon";
    do
    {
        printf("\n *****<< LOGIN >>*****\n");
        printf(" \n    USERNAME:-");
        scanf("%s", &uname);
        printf(" \n    PASSWORD:-");
        while(i<10)
        {
            pword[i]=getch();
            c=pword[i];
            if(c==13) break;
            else printf("*");
            i++;
        }
        pword[i]='\0';
        //char code=pword;
        i=0;
        //scanf("%s",&pword);
        if(strcmp(uname,"emon")==0 && strcmp(pword,"emon")==0)
        {
            printf(" \n\n    WELCOME TO SCHOOL BILLING SYSTEM !!!! LOGIN\nIS SUCCESSFUL");
            printf("\n\n\t\tPress any key to continue...");
            getch();//holds the screen
            break;
        }
    }
}
```

```

    }
    else
    {
        printf("\n\nSORRY !!!! LOGIN IS UNSUCCESSFUL");
        a++;

        getch();//holds the screen
    }
}

while(a<=3);
if (a>3)
{
    printf("\nSorry you have entered the wrong username and password for
four times!!!");
    ext();//for exiting
}
system("cls");
}

```

## APPENDIX-C

```
void main(void)
{
    int i,j,k;

    system("color 8b");
    printf("\n");
    printf("\n");
    printf("\n");
    printf("\n");
    printf(" \t*****\n");
    printf(" \t*                               *\n");
    printf(" \t***  >>>>>>> WELCOME TO SCHOOL <<<<<<<  ***\n");
    printf(" \t*      >>>> Billing System <<<<<          *\n");
    printf(" \t*      <<<< Developed By Emon >>>>          *\n");
    printf(" \t*****\n");
    printf("\n");
    printf("\n");
    printf("\n");
    for(i=0;i<99;i++)
        printf("-");
    printf(" \n\tENTER ANY KEY TO CONTINUE . . ");
    printf("\n");
        for(i=0;i<99;i++)
            printf("-");

    getch();
    system("cls");//clears the screen
    printf("\n");

    for(i=0; i<80; i++)

    {
```

```

        printf("\xdb");
    }
    system("color 5f");
    printf("\n\n\t*****<<  WELCOME  TO  SCHOOL  BILLING  SYSTEM  FOR
ADMINISTRATION >>*****\n\n\n");
    for(i=0; i<80; i++)
    {
        printf("\xdb");
    }
    printf("\n\n LOADING PLEASE WAIT... \n");
    for(i=0; i<3; i++)
    {
        printf(".");
        Sleep(500);
    }
    printf("\n\n Enter Any Key To Proceed");
    fflush(stdin);
    getch();
    system("cls");
    login();
    start();
}

```

## APPENDIX-D

```

void start()
{
    int i,j;//j is for selection of account type
    system("cls");

        for(i=0;i<80;i++)
            printf("-");

    printf("\n\t\t SELECT YOUR ACCOUNT ");
    printf("\n");
    for(i=0;i<80;i++)

        printf("-");

    printf("\n\t\t1->> Student");
    printf("\n\t\t2->> Teacher & Staffs");
    printf("\n\t\t3->> Exit");
    printf("\n");
    for(i=0;i<80;i++)

        printf("-");

    printf("\n\t\t Enter Your Account Type :- ");
    fflush(stdin);
    scanf("%d",&j);

    switch (j)
    {
    case 3:
        ext();
    case 1:
    {
        system("color 3f");
        system("cls");
        for(i=0;i<80;i++)

            printf("-");

            printf("\n
printf("*****<<
>>***** \n");

            for(i=0;i<80;i++)
                printf("-");
                printf("\n");

```



```

printf("\n\t\t SELECT YOUR CHOICE :");
printf("\n\t\t1>> Add Student's Record");
printf("\n\t\t2>> Show all students record");
printf("\n\t\t3>> Search Student's Record");
printf("\n\t\t4>> Modify Student's Record");
printf("\n\t\t5>> Delete Student's Record");
printf("\n\t\t6>> Calculate Student's Fee");
printf("\n\t\t7>> Show Student's Fee");
printf("\n\t\t8>> Exit");
printf("\n");
printf("\n");
time_t t; //for current date and time//
                                time(&t);

for(i=0;i<80;i++)
                                printf("-");
                                printf("\nCurrent date and time : %s",ctime(&t)); //to display
current date and time//
                                for(i=0;i<80;i++)
                                printf("-");

printf("\n\n Enter Your Choice ");
fflush(stdin);
scanf("%d",&i);
switch (i)
{
case 1:
    addrec(j);//function call
    start();//function call
case 2:
    showallrecord(j);
    start();
case 3:
    searchrec(j);
    start();
case 4:
    modrec(j);

```

```

        start();
case 5:
    delrec(j);
    start();
case 6:
    fee(mm);
    start();
case 7:
    showfee();
    //start();
case 8:
    ext();
default :
{
    printf("\n\n\tInvalid entry!!");
    printf("\n\n\tTo Account Type\n\n\t");
    system("pause");
    start();
}
}
}
case 2:
{
    system("color 3f");
    system("cls");
    for(i=0;i<80;i++)

        printf("-");
        printf("\n");
        printf("*****<<
ACCOUNT MENU >>*****\n");
        for(i=0;i<80;i++)
            printf("-");
            printf("\n");

        printf("\n\t\tSELECT YOUR CHOICE");
        printf("\n\t\t1-> Add Teacher/Staff's Records");

```

TEACHER/STAFF

```

printf("\n\t\t2-> show All Teacher/Staff's Records");
printf("\n\t\t3-> Search Teacher/Staff's Records");
printf("\n\t\t4-> Modify Teacher/Staff's Records");
printf("\n\t\t5-> Delete Teacher/Staff's Records");
printf("\n\t\t6-> Calculate Teacher/Staff's Salary");
printf("\n\t\t7-> Show Teacher/Staff's Salary");
printf("\n\t\t8-> Exit");
printf("\n");
printf("\n");
time_t t; //for current date and time//
                                time(&t);

for(i=0;i<80;i++)
                                printf("-");
                                printf("\nCurrent date and time : %s",ctime(&t)); //to display
current date and time//
                                for(i=0;i<80;i++)
                                printf("-");

printf("\n\n Enter Your Choice ");
fflush(stdin);
scanf("%d",&i);
switch (i)
{
case 1:
    addrec(j)
    start();
case 2:
    showallrecordtech(j);
    start();
case 3:
    searchrec(j);
    start();
case 4:
    modrec(j);
    start();
case 5:

```

```

        delrec(j);
case 6:
    salary(mm);
    start();
case 7:
    showsalary();
case 8:
    ext();
default :
{
    printf("\n\n\tInvalid Entry!!");
    printf("\n\nTo Account Type\n\n\t");
    system("pause");
    start();
}
}
}
default :
{
    printf("\n\n\tInvalid Entry!!");
    printf("\n\nTo Account Type\n\n\t");
    system("pause");
    start();
}
}
}
}

```

## APPENDIX-E

```
void showallrecord(int j)
{

    printf("All information\n\n\n");
    printf("Name \tClass \tRoll no \tAddress \t\t\tContact no\n");
    printf("____\t____\t_____\t_____\t_____\n\n");
    FILE *fs;
    fs=fopen("student.txt","r");
    while(fread(&stud,sizeof(stud),1,fs))
    {

        printf("%s \t%d \t %d\t \t %s\t \t %s\n",stud.n,stud.c,stud.r,stud.address,stud.contact);

    }
    fclose(fs);
    printf("\n\n Press Esc To Exit or Do you want to continue(press y or Y");
    fflush(stdin);
    char c=getch();
    if(c==27)

        start();

}
```

## APPENDIX-F

[illegible]

## APPENDIX-G

[illegible]

```

scanf("%s",&stud.contact);
fs=fopen("student.txt","a");//opening a binary file in append mode
fwrite(&stud,sizeof(stud),1,fs);
fclose(fs);
printf("\nRecorded Successfully !! ");
printf("\n\nPress Esc To Exit or Do you want to continue adding records(press y or Y")
;

fflush(stdin);
c=getch();
if(c==27)

                start();

    }
    getch();
}
if (j==2)
{
    while(c=='y'||c=='Y')
    {
        int a=1;
        printf("\n\nEnter name of teacher/staff:" );
        fflush(stdin);
        scanf("%[^\\n]",tech.n);
        printf("\nEnter teacher/staff id: ");
        fflush(stdin);
        scanf("%d",&tech.id);
        printf("\nEnter Address of the teacher/staff .:");
        fflush(stdin);

        scanf("%s",&tech.address);
        printf("\nEnter Contact No.:");
        fflush(stdin);
        scanf("%s",&tech.contact);
        printf("\nEnter number of class/shift per month:: ");

```



```

scanf("%d",&tech.no);
fflush(stdin);
printf("\nEnter month and day till which salary is paid::");
fflush(stdin);
scanf("%2d%2d",&cdat,&ddat);
cdat=chkdat(cdat,ddat);
tech.dt.m=cdat;
ft=fopen("teacher.txt","a");
fwrite(&tech,sizeof(tech),1,ft);
fclose(ft);
printf("\nRecorded Successfully !! ");
printf("\n\n Press Esc To Exit or Do you want to continue adding records(press y or
Y");
fflush(stdin);
c=getch();
if(c==27)
    start();
}
fflush(stdin);
printf("\n\n");
system("pause");
}
}

```

## APPENDIX-H

[illegible]



```

        printf("\n\nRECORD NOT FOUND");
    printf("\n\n");
    system("pause");
    fflush(stdin);
    fclose(fs);
}
else if (choice==3)
{
    int rll;
    a=1;
    printf("\n\nEnter roll of student to search: ");
    fflush(stdin);
    rll=clscanf();
    fs=fopen("student.txt","rb");
    while(fread(&stud,sizeof(stud),1,fs)==1)
    {
        if (strcmpi(name,stud.n)==0)
        {
            a=0;
            printf("\nname = %s",stud.n);
            printf("\nclass = %d",stud.c);
        }
    }
    if (a==1)
        printf("\n\nRECORD NOT FOUND");
    printf("\n\n");
    system("pause");
    fflush(stdin);
    fclose(fs);
}
else if(choice==4)
{
    ext();
}
else

```



```

    }
    if (a==1)
        printf("\n\nRECORD NOT FOUND");
    printf("\n\n");
    system("pause");
    fflush(stdin);
    fclose(ft);
    printf("\n\n Press Esc To Exit or Do you want to continue searching(press y or Y");
    fflush(stdin);
    c=getch();
    if(c==27)
        start();
    }
    getch();
}
}

```

## APPENDIX-I

[illegible]

```

if (strcmpi(name,stud.n)==0)
{
    a=0;
    printf("\nenter new name of student: ");
    fflush(stdin);
    scanf("%[^\n]",stud.n);
    printf("\nenter new class of student: ");
    fflush(stdin);
    stud.c=clscanf();
    printf("\nenter new roll of student: ");
    fflush(stdin);
    scanf("%d",&stud.r);
    printf("\nEnter new Address of the Student.:");
    fflush(stdin);
    scanf("%s",&stud.address);
    printf("\nEnter new Contact No.:");
    fflush(stdin);
    scanf("%s",&stud.contact);
    fseek(fs,-sizeof(stud),SEEK_CUR);
    fwrite(&stud,sizeof(stud),1,fs);
    fclose(fs);
}
}
if (a==1)
    printf("\n\nRECORDS NOT FOUND");
else
    printf("\n\nRECORDS SUCCESSFULLY MODIFIED");
printf("\n\n");
system("pause");
}
else if (choice==2)
{
    int a=0;
    printf("\n\nEnter name of student to modify: ");
    fflush(stdin);

```



```

scanf("%[^\\n]",name);
printf("\\n\\nEnter class of student to modify: ");
fflush(stdin);
cl=clscanf();
fs=fopen("student.txt","rb+");
while(fread(&stud,sizeof(stud),1,fs)==1)
{
    a=1;
    if (strcmpi(name,stud.n)==0 && cl==stud.c)
    {
        a=0;
        printf("\\nEnter new name of student: ");
        fflush(stdin);
        scanf("%[^\\n]",stud.n);
        printf("\\nEnter new class of student: ");
        fflush(stdin);
        stud.c=clscanf();
        printf("\\nEnter new roll of student: ");
        fflush(stdin);
        scanf("%d",&stud.r);
        printf("\\nEnter new Address of the Student.:");
        fflush(stdin);
        scanf("%s",&stud.address);
        printf("\\nEnter new Contact No.:");
        fflush(stdin);
        scanf("%s",&stud.contact);
        fseek(fs,-sizeof(stud),SEEK_CUR);
        fwrite(&stud,sizeof(stud),1,fs);
        fclose(fs);
    }
}
if (a==1)
    printf("\\n\\nRECORDS NOT FOUND");
else
    printf("\\n\\nRECORDS SUCCESSFULLY MODIFIED");

```

```

printf("\n\n");
system("pause");
}
else if (choice==3)
{
    int a=0;
    printf("\n\nEnter name of student to modify: ");
    fflush(stdin);
    scanf("%[^\\n]",name);
    printf("\n\nEnter class of student to modify: ");
    fflush(stdin);
    cl=clscanf();
    printf("\n\nEnter roll of student to modify: ");
    fflush(stdin);
    scanf("%d",&rolno);
    printf("\n\nEnter new Address of the Student.:");
    fflush(stdin);
    scanf("%s",&stud.address);
    printf("\n\nEnter new Contact No.:");
    fflush(stdin);
    scanf("%s",&stud.contact);
    fs=fopen("student.txt","rb+");
    while(fread(&stud,sizeof(stud),1,fs)==1)
    {
        a=1;
        if (strcmpi(name,stud.n)==0 && cl==stud.c &&rolno==stud.r)
        {
            a=0;
            printf("\n\nEnter new name of student: ");
            fflush(stdin);
            scanf("%[^\\n]",stud.n);
            printf("\n\nEnter new class of student: ");
            fflush(stdin);
            stud.c=clscanf();
            printf("\n\nEnter new roll of student: ");

```

```

        fflush(stdin);
        scanf("%d",&stud.r);
        printf("\nEnter new Address of the Student:");
        fflush(stdin);
        scanf("%s",&stud.address);
        printf("\nEnter new Contact No.:");
        fflush(stdin);
        scanf("%s",&stud.contact);
        fseek(fs,-sizeof(stud),SEEK_CUR);
        fwrite(&stud,sizeof(stud),1,fs);
        fclose(fs);
    }
}
if (a==1)
    printf("\n\nRECORDS NOT FOUND");
else
    printf("\n\nRECORDS SUCCESSFULLY MODIFIED");
    printf("\n\n");
    system("pause");
}
else if (choice==4) ext();
else
{
    printf("\n\n\n\tINVALID ENTRY!!!!\n\n\t\t");
    system("pause");
    modrec(1);
}

printf("\n\n Press Esc To Exit or Do you want to continue modifying records(press y or
Y");
fflush(stdin);
c=getch();
if(c==27)

        start();

}

```

```

    getch();
}

if (j==2)
{
    while(c=='y' || c=='Y')
    {
        int a=1;
        printf("Enter name of teacher to modify: ");
        fflush(stdin);
        scanf("%[^\\n]",name);
        ft=fopen("teacher.txt","rb+");
        while(fread(&tech,sizeof(tech),1,ft)==1)
        {
            if (strcmpi(name,tech.n)==0)
            {
                a=0;
                printf("\nEnter new name of teacher: ");
                fflush(stdin);
                scanf("%[^\\n]",tech.n);
                printf("\nEnter new id of teacher: ");
                fflush(stdin);
                scanf("%d",&tech.id);
                printf("\nEnter New Address of the teacher/staff .:");
                fflush(stdin);
                scanf("%s",&tech.address);
                printf("\nEnter New Contact No.:");
                fflush(stdin);
                scanf("%s",&tech.contact);
                fseek(ft,-sizeof(tech),SEEK_CUR);
                fwrite(&tech,sizeof(tech),1,ft);
                fclose(ft);
            }
        }
    }
}

```

```

        if (a==1)
            printf("\n\nRECORD NOT FOUND");
        else
            printf("\n\nRECORD SUCCESSFULLY MODIFIED");
        printf("\n\n");
        system("pause");
        fflush(stdin);

        printf("\n\n Press Esc To Exit or Do you want to continue modifying records(press y or
Y");
        fflush(stdin);
        c=getch();
        if(c==27)
            start();
    }
    getch();
}
}

```

## APPENDIX-J

```
void delrec(int j)
{
    system("color 3f");
    system("cls");

printf("\n\t*****")
);
printf("\n\t<<<<<<<<<<<<<<          DELETE      RECORDS\n>>>>>>>>>>>>>>>>>>>>)

printf("\n\t*****")
);
FILE *temp,*t1;
int a=1;
char name[50],c='y';
if (j==1)
{
while(c=='y'||c=='Y')
{
int a=1;
printf("\n\nEnter name of student to delete: ");
fflush(stdin);
scanf("%[^\\n]",name);
fs=fopen("student.txt","rb");
temp=fopen("tempfile","wb");//opening of temporary file for deleting process
while (fread(&stud,sizeof(stud),1,fs)==1)
{
if (strcmp(stud.n,name)==0)
{
a=0;
//fwrite(&stud,sizeof(stud),1,temp);
continue;
}
else
{
```

```

        fwrite(&stud,sizeof(stud),1,temp);
    }
}

if (a==1)
    printf("\n\nRECORD NOT FOUND");
else
    printf("\n\nRECORD SUCCESSFULLY DELETED");
printf("\n\n");
system("pause");
fflush(stdin);
fclose(fs);
fclose(temp);
fs=fopen("student.txt","w");
temp=fopen("tempfile","r");
while(fread(&stud,sizeof(stud),1,temp))
    fwrite(&stud,sizeof(stud),1,fs);
printf("-----");
fclose(fs);
fclose(temp);
system("del student");/*all data except the data to be
deleted in student were 1st moved to temp and data in student
was deleted*/
system("ren tempfile, student");//renaming temp to student
printf("\n\n Press Esc To Exit or Do you wish to continue deleting other records(press
y or Y");
fflush(stdin);
c=getch();
if(c==27)
    start();
}
getch();
}

if (j==2)

```

```

{
    a=1;
    char namet[50];
    while(c=='y' || c=='Y')
    {
        printf("\n\nEnter name of teacher to delete record: ");
        fflush(stdin);
        scanf("%[^\n]",namet);
        ft=fopen("teacher.txt","rb");
        t1=fopen("tempfile1","wb");
        while (fread(&tech,sizeof(tech),1,ft)==1)
        {
            if (strcmp(tech.n,namet)==0)
            {
                a=0;
                continue;
            }
            else
            {
                fwrite(&tech,sizeof(tech),1,t1);
            }
        }
        if (a==1)
            printf("\n\nRECORD NOT FOUND");
        else
            printf("\n\nRECORD SUCCESSFULLY DELETED");
        printf("\n\n");
        system("pause");
        fflush(stdin);

        fclose(ft);
        fclose(t1);
        fs=fopen("teacher.txt","w");
        t1=fopen("tempfile1","r");
        while(fread(&tech,sizeof(tech),1,t1))

```



```

        fwrite(&tech,sizeof(tech),1,fs);
printf("-----");
fclose(fs);
fclose(t1);

system("del teacher.txt");
system("ren tempfile1, teacher.txt");
printf("\n\n Press Esc To Exit or Do you wish to continue deleting other records(press
y or Y");
fflush(stdin);
c=getch();
if(c==27)
            start();
    }
    getch();
}
}

```

## APPENDIX-K

[illegible]

```

scanf("%d%d",&cdat,&ddat);
cdat=chkdat(cdat,ddat);
tech.dt.m=cdat;
tech.sal=tech.no*500;
tech.adv=(tech.dt.m-mm-1)*tech.sal;
if (tech.adv<0) tech.adv=0;
tech.tot=tech.sal;
fwrite(&tech,sizeof(tech),1,t);
printf("Record Added");
}
}
if (a==1)
    printf("\n\nRECORD NOT FOUND");
printf("\n\n");
system("pause");
fflush(stdin);

fclose(f);
fclose(t);
printf("\n\n Press Esc To Exit or Do you want to continue(press y or Y");
fflush(stdin);
c=getch();
if(c==27)
    start();
}
getch();

}

```

## APPENDIX-L

[illegible]

```

        a=0;
        printf("\nhow many month & day he or she wants to pay:");
        fflush(stdin);
        scanf("%2d%2d",&cdat,&ddat);
        cdat=chkdat(cdat,ddat);
        stud.dt.m=cdat;
        ff=stud.c/12.0;
        stud.f=1000*(1+ff);//fee of different classes
        dif=stud.dt.m-mm;//months of fee wants to pay
        stud.fine=(dif*stud.f)*1/100;
        stud.due=(dif)*stud.f;//fees left to be paid
        if(dif==1)
        {
            stud.tot=stud.f;
            stud.fine=0;
        }
        else
        {
            stud.tot=stud.fine+stud.due;
        }
        fwrite(&stud, sizeof(stud),1,t);
        printf("Record Added");
    }
}
if (a==1)
    printf("\n\nRECORD NOT FOUND");
printf("\n\n");
system("pause");
fflush(stdin);

fclose(f);
fclose(t);
printf("\n\n Press Esc To Exit or Do you want to continue(press y or Y");
fflush(stdin);
c=getch();
if(c==27)
    start();
}
getch();
}

```

## APPENDIX-M

```
void ext()
{
    int i;
    system("color 3b");
    printf("\n\n\t\t Thanks for using My School Billing System. .\n\n");
    system("pause");
    system("cls");
    printf("\n\n\t\t Exiting In A Moment\n\n");
    for(i=1; i<=60; i++)
    {
        Sleep(50);
        printf("->");
    }
    exit(0);
}
```

## APPENDIX-N

```
int chkdat(int mnt,int dnt)
{
    int mon,day;
    if (mnt>12 || mnt<1 || dnt<1 || dnt>32)
    {
        MessageBox(0,"Invalid Date!\nEnter Again","Error!",0);

        fflush(stdin);
        scanf("%d%d",&mon,&day);
        mon=chkdat(mon,day);
    }
    else
        return (mnt);
}
```

## APPENDIX-O

```
int clsanf()
{
    int mnt,mon;
    fflush(stdin);
    scanf("%d",&mnt);
    if (mnt>12 ||mnt<1)
    {

        MessageBox(0,"Invalid Class!\nEnter Class","Error!!",0);
        fflush(stdin);
        mon=clsanf();
    }
    else
        return mnt;
}
```

## APPENDIX-P

```
void showfee(){
    FILE *fs;
    fs = fopen("fee.txt","r");

    if(fs==NULL){
        printf("file is not exist");

    }else
        printf("\n\nName\tRoll\t\n");
    {
        while(fread(&stud,sizeof(stud),1,fs)){

            printf("Name \tClass \tRoll no \tFee\tTotal Fee\n");
            printf("_____ \t_____ \t_____ \t_____ \t_____ \n\n");
            printf("%s \t%d \t%d\t\t%.2f\t%.2f",stud.n,stud.c,stud.r,stud.f,stud.tot);
        }
        fclose(fs);

    }
    printf("\n\n Press Esc To Exit or Do you want to continue(press y or Y");
    fflush(stdin);
    char c=getch();
    if(c==27)
        start();
}
```

## APPENDIX-Q

```
void showsalary(){
FILE *fs;
fs = fopen("salary.txt","r");

if(fs==NULL){
    printf("file not exist");

}
else
printf("\n\nName\tTeacher/staff id\tSalary\tTotal \n");
printf("____ \t_____ \t_____ \t_____ \t_____ \n\n");
{
    while(fread(&tech,sizeof(tech),1,fs)){

        printf("%s \t%d \t\t %.2f\t\t%.2f\n",tech.n,tech.id,tech.sal,tech.tot);

    }
    fclose(fs);

}
printf("\n\n Press Esc To Exit or Do you want to continue(press y or Y");
fflush(stdin);
char c=getch();
if(c==27)
    start();
}
```