MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Skills Based Project Report

on

Report Card Making System

Submitted by:

Kajal Shivhare

0901CA211025

Mentor:

Dr. Anshu Chaturvedi

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR - 474005 (MP) est. 1957

JULY-DECEMBER 2021

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

CERTIFICATE

This is certified that **Kajal Shivhare** (0901CA211025) has submitted the project report titled **Report Card Making System** under the mentorship of **Dr. Anshu Chaturvedi**, as the skills based mini project in 1st year of Master of Computer Application in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

Dr. Anshu Chaturvedi
Faculty coordinator
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

DECLARATION

I hereby declare that the work being presented in this project report, for the fulfilment of partial requirement of the skills based mini project in 1st year of Master of Computer Applicationin Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Dr. Anshu Chaturvedi**, MITS Gwalior.

I declare that I have not submitted the matter embodied in this report anywhere else.

Kajal Shivhare
0901CA211025
1st Year,
Master of Computer Application,
Computer Science and Engineering

ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary project. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Computer Science and Engineering**, for allowing me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr.Anshu Chaturvedu**, Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.

Kajal Shivhare
0901CA211025
1st Year,
Master of Computer Application,
Computer Science and Engineering

ABSTRACT

As the report card is to be prepared to time, so that results can be declared on desired date, it was not possible manually to achieve this goal. All the tasks have to be performed by the class teacher and these teachers also involved in other activities such as checking papers, taking exams, giving lectures etc. So, it was not possible for them to tackle all these tasks at a time. Even some modification is required, they have to start from the beginning like, searching files to get particular student records, going through each subject paper and make alteration if found correct.

This system has been developed to eliminate the repetitive tasks which is to be performed manually thus saving time and investment. This new system will store all the student records along with their marks and report card details, by which teachers and admin will able to retrieve these records whenever they required. It will enable teachers to get information on various sections such as list of failures students, list of toppers students, students list who have failed in particular subject etc. using the predefined rules set by the institutions. Apart from these searching and sorting mechanism has been used to make these tasks faster. It will enable teachers to make report card, by entering subject marks, viewing report card of all or particular student, easy navigation system from moving one module to next module while using this system.

.

CONTENTS

COVER PAGE ..... **I**

CERTIFICATE ..... **II**

DECLARATION ..... **III**

ACKNOWLEDGEMENT ..... **IV**

ABSTRACT ..... **V**

CONTENTS ..... **VI**

TITLE **PAGE NO.**

1 : Introduction **1**

2 : Objective **2**

3 : Coding Screenshots **3-4**

4 : Output Screenshots **5-6**

5 : Conclusion **7**

6 : Bibliography **8**

1. INTRODUCTION

This project STUDENT REPORT CARD SYSTEM includes facilities of registration, search, display, modification, deletion of student information about the marks and their name and rolls number.

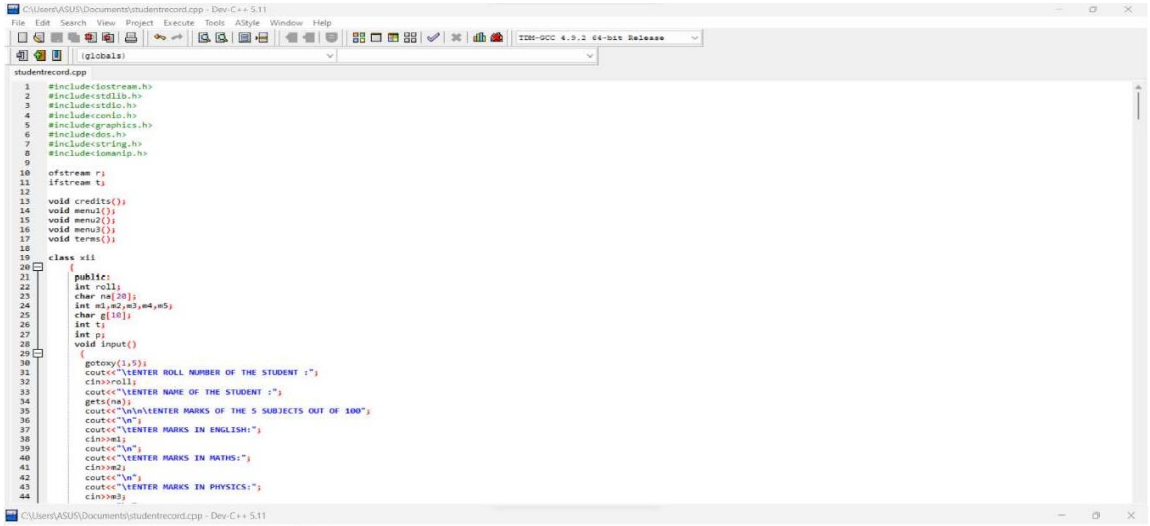
This software searches the student information on the basis of roll number which is store in the record.

The software used for small schools for maintaining their records related to report card and marks of student and cost savings.

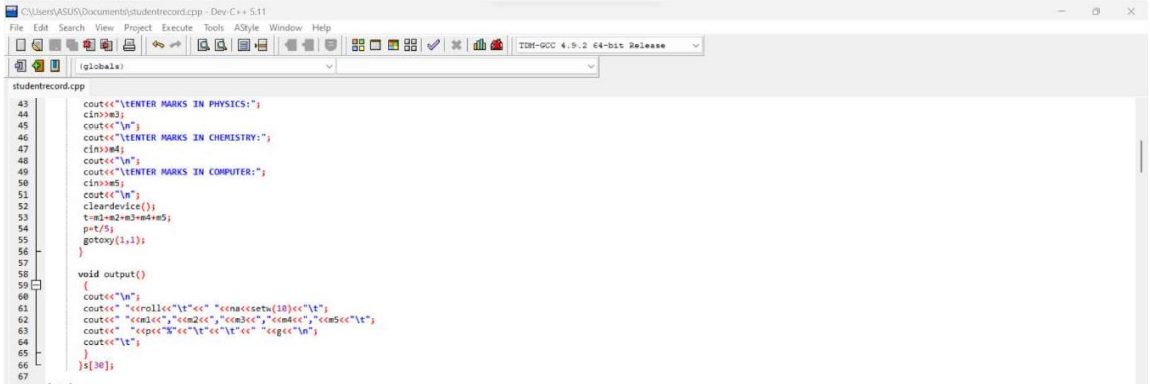
2. OBJECTIVE

Preparing report cards for number of students involves same task need to be performed every time. As this work involves doing calculation on same rules to make final results for each result and writing it manually on report card using pen and paper. So, to eliminate such type of work, it's better to achieve this work using computer system. Teachers or persons who will responsible for preparing report card have to enter only marks of each subject for every student's and processing work will take care by the computer system in order to prepare final report card. Even system will relieve teachers for writing manually on report card and providing print facility by which, it will enable them to display the marks of each student's on paper by just one click. As system has been provided with all maximum possibility to make their task easier, so number of features has been made available to continue the task without any intervention. It will only not prepare the report card, but also able to store data of each student's, so that it can be accessed any time and if required can make modification as per requirement. The concept of graphics has been used which will make its user to use this system in an easy manner.

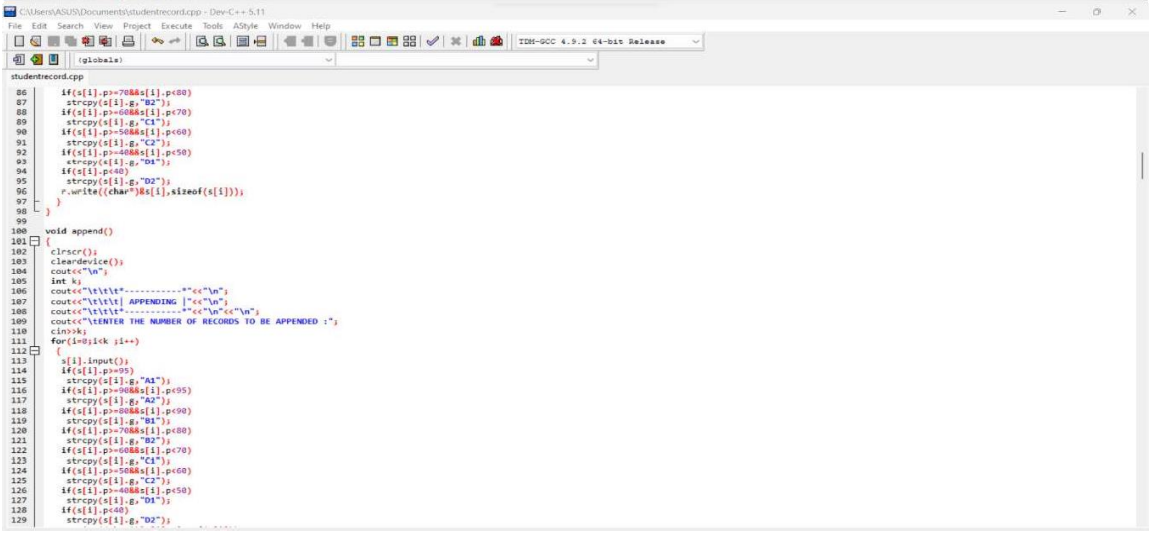
3. CODING SCREENSHOTS



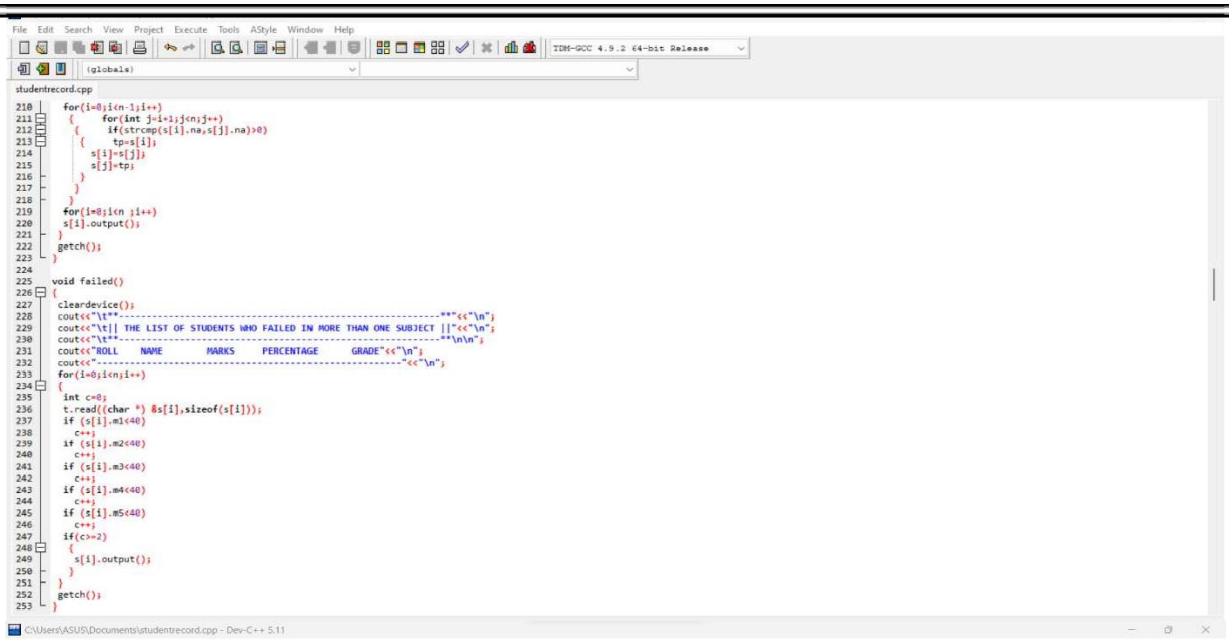
```
#include<iostream.h>
#include<stdlib.h>
#include<stdio.h>
#include<conio.h>
#include<graphics.h>
#include<dos.h>
#include<string.h>
#include<iomanip.h>

ofstream r;
ifstream t;

void credits();
void menu1();
void menu2();
void menu3();
void terms();

class xii
    {
     public:
     int roll;
     char na[20];
     int m1,m2,m3,m4,m5;
     char g[10];
     int t;
     int p;
     void input()
      {
       gotoxy(1,5);
       cout<<"\tENTER ROLL NUMBER OF THE STUDENT :";
       cin>>roll;
       cout<<"\tENTER NAME OF THE STUDENT :";
       gets(na);
       cout<<"\n\n\tENTER MARKS OF THE 5 SUBJECTS OUT OF 100";
       cout<<"\n";
       cout<<"\tENTER MARKS IN ENGLISH:";
       cin>>m1;
       cout<<"\n";
       cout<<"\tENTER MARKS IN MATHS:";
       cin>>m2;
       cout<<"\n";
       cout<<"\tENTER MARKS IN PHYSICS:";
       cin>>m3;
```



```
       cout<<"\tENTER MARKS IN PHYSICS:";
       cin>>m3;
       cout<<"\n";
       cout<<"\tENTER MARKS IN CHEMISTRY:";
       cin>>m4;
       cout<<"\n";
       cout<<"\tENTER MARKS IN COMPUTER:";
       cin>>m5;
       cout<<"\n";
       cleardevice();
       t=m1+m2+m3+m4+m5;
       p=t/5;
       gotoxy(1,1);
      }

      void output()
       {
       cout<<"\n";
       cout<<" "<<roll<<"\t"<<" "<<na<<setw(10)<<"\t";
       cout<<" "<<m1<<","<<m2<<","<<m3<<","<<m4<<","<<m5<<"\t";
       cout<<"  "<<p<<"%"<<"\t"<<"\t"<<" "<<g<<"\n";
       cout<<"\t";
       }
     }s[30];

int i,n;
void writes()
{
 clrscr();
 cleardevice();
 cout<<"\n";
 cout<<"\tENTER THE NUMBER OF RECORDS TO BE CREATED :";
 cin>>n;
 cleardevice();
 for(i=0;i<n ;i++)
  {
   s[i].input();
   if(s[i].p>=95)
    strcpy(s[i].g,"A1");
   if(s[i].p>=90&&s[i].p<95)
    strcpy(s[i].g,"A2");
   if(s[i].p>=80&&s[i].p<90)
    strcpy(s[i].g,"B1");
   if(s[i].p>=70&&s[i].p<80)
```

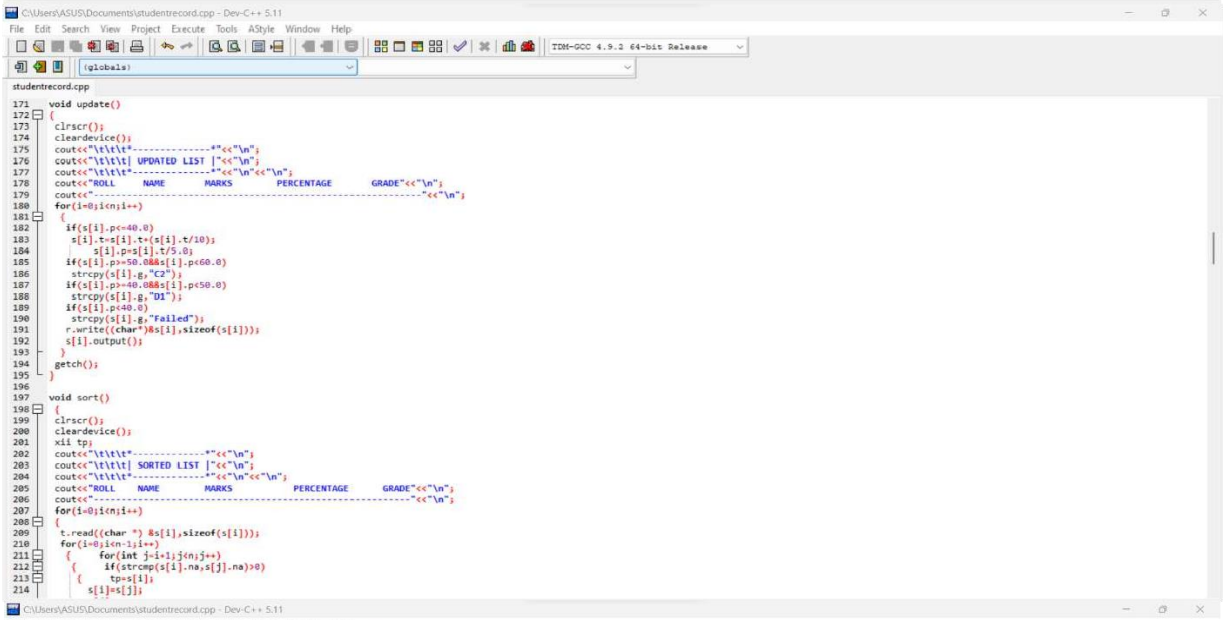


```
   if(s[i].p>=70&&s[i].p<80)
    strcpy(s[i].g,"B2");
   if(s[i].p>=60&&s[i].p<70)
    strcpy(s[i].g,"C1");
   if(s[i].p>=50&&s[i].p<60)
    strcpy(s[i].g,"C2");
   if(s[i].p>=40&&s[i].p<50)
    strcpy(s[i].g,"D1");
   if(s[i].p<40)
    strcpy(s[i].g,"D2");
   r.write((char*)&s[i],sizeof(s[i]));
  }
}

void append()
{
 clrscr();
 cleardevice();
 cout<<"\n";
 int k;
 cout<<"\t\t\t\t----------*"<<"\n";
 cout<<"\t\t\t\| APPENDING |"<<"\n";
 cout<<"\t\t\t\t----------*"<<"\n"<<"\n";
 cout<<"\tENTER THE NUMBER OF RECORDS TO BE APPENDED :";
 cin>>k;
 for(i=0;i<k ;i++)
  {
   s[i].input();
   if(s[i].p>=95)
    strcpy(s[i].g,"A1");
   if(s[i].p>=90&&s[i].p<95)
    strcpy(s[i].g,"A2");
   if(s[i].p>=80&&s[i].p<90)
    strcpy(s[i].g,"B1");
   if(s[i].p>=70&&s[i].p<80)
    strcpy(s[i].g,"B2");
   if(s[i].p>=60&&s[i].p<70)
    strcpy(s[i].g,"C1");
   if(s[i].p>=50&&s[i].p<60)
    strcpy(s[i].g,"C2");
   if(s[i].p>=40&&s[i].p<50)
    strcpy(s[i].g,"D1");
   if(s[i].p<40)
    strcpy(s[i].g,"D2");
```

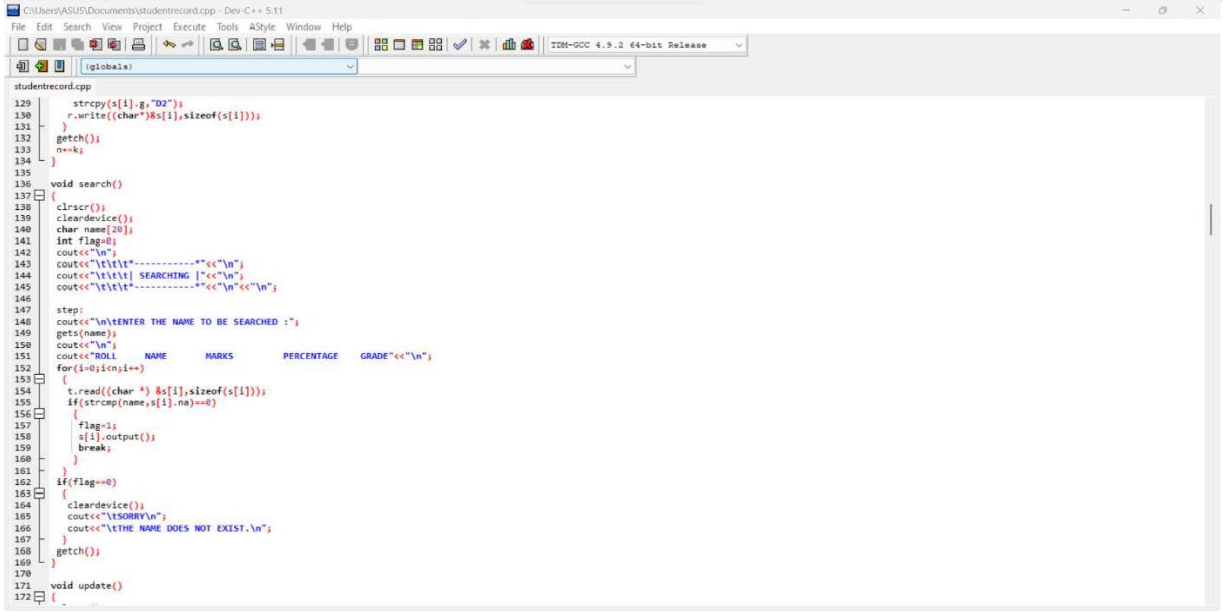


```
  for(i=0;i<n-1;i++)
  {     for(int j=i+1;j<n;j++)
   {      if(strcmp(s[i].na,s[j].na)>0)
    {      tp=s[i];
      s[i]=s[j];
      s[j]=tp;
    }
   }
  }
  for(i=0;i<n ;i++)
  s[i].output();
 }
 getch();
}

void failed()
{
 cleardevice();
 cout<<"\t**------------------------------------------------------------**"<<"\n";
 cout<<"\t|| THE LIST OF STUDENTS WHO FAILED IN MORE THAN ONE SUBJECT ||"<<"\n";
 cout<<"\t**------------------------------------------------------------**\n\n";
 cout<<"ROLL    NAME        MARKS     PERCENTAGE      GRADE"<<"\n";
 cout<<"-------------------------------------------------------"<<"\n";
 for(i=0;i<n;i++)
 {
  int c=0;
  t.read((char *) &s[i],sizeof(s[i]));
  if (s[i].m1<40)
    c++;
  if (s[i].m2<40)
    c++;
  if (s[i].m3<40)
    c++;
  if (s[i].m4<40)
    c++;
  if (s[i].m5<40)
    c++;
  if(c>=2)
   {
    s[i].output();
   }
 }
 getch();
}
```

C:\Users\ASUS\Documents\studentrecord.cpp - Dev-C++ 5.11



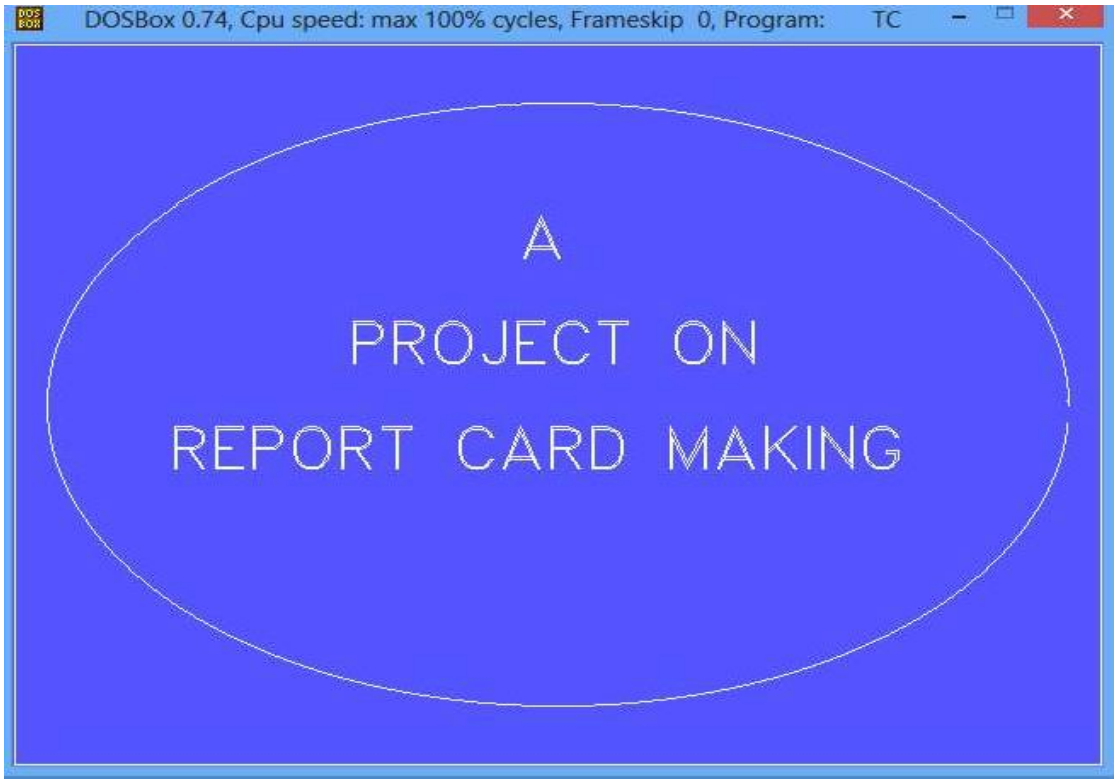
```
void update()
{
 clrscr();
 cleardevice();
 cout<<"\t\t\t*--------------*"<<"\n";
 cout<<"\t\t\t| UPDATED LIST |"<<"\n";
 cout<<"\t\t\t*--------------*"<<"\n"<<"\n";
 cout<<"ROLL     NAME        MARKS         PERCENTAGE       GRADE"<<"\n";
 cout<<"-------------------------------------------------------"<<"\n";
 for(i=0;i<n;i++)
  {
   if(s[i].p<=40.0)
    s[i].t=s[i].t+(s[i].t/10);
       s[i].p=s[i].t/5.0;
   if(s[i].p>=50.0&&s[i].p<60.0)
    strcpy(s[i].g,"C2");
   if(s[i].p>=40.0&&s[i].p<50.0)
    strcpy(s[i].g,"D1");
   if(s[i].p<40.0)
    strcpy(s[i].g,"Failed");
   r.write((char*)&s[i],sizeof(s[i]));
   s[i].output();
  }
 getch();
}

void sort()
 {
 clrscr();
 cleardevice();
 xii tp;
 cout<<"\t\t\t*--------------*"<<"\n";
 cout<<"\t\t\t| SORTED LIST |"<<"\n";
 cout<<"\t\t\t*--------------*"<<"\n"<<"\n";
 cout<<"ROLL    NAME        MARKS            PERCENTAGE      GRADE"<<"\n";
 cout<<"-------------------------------------------------------"<<"\n";
 for(i=0;i<n;i++)
 {
  t.read((char *) &s[i],sizeof(s[i]));
  for(i=0;i<n-1;i++)
  {     for(int j=i+1;j<n;j++)
   {      if(strcmp(s[i].na,s[j].na)>0)
    {      tp=s[i];
      s[i]=s[j];
```

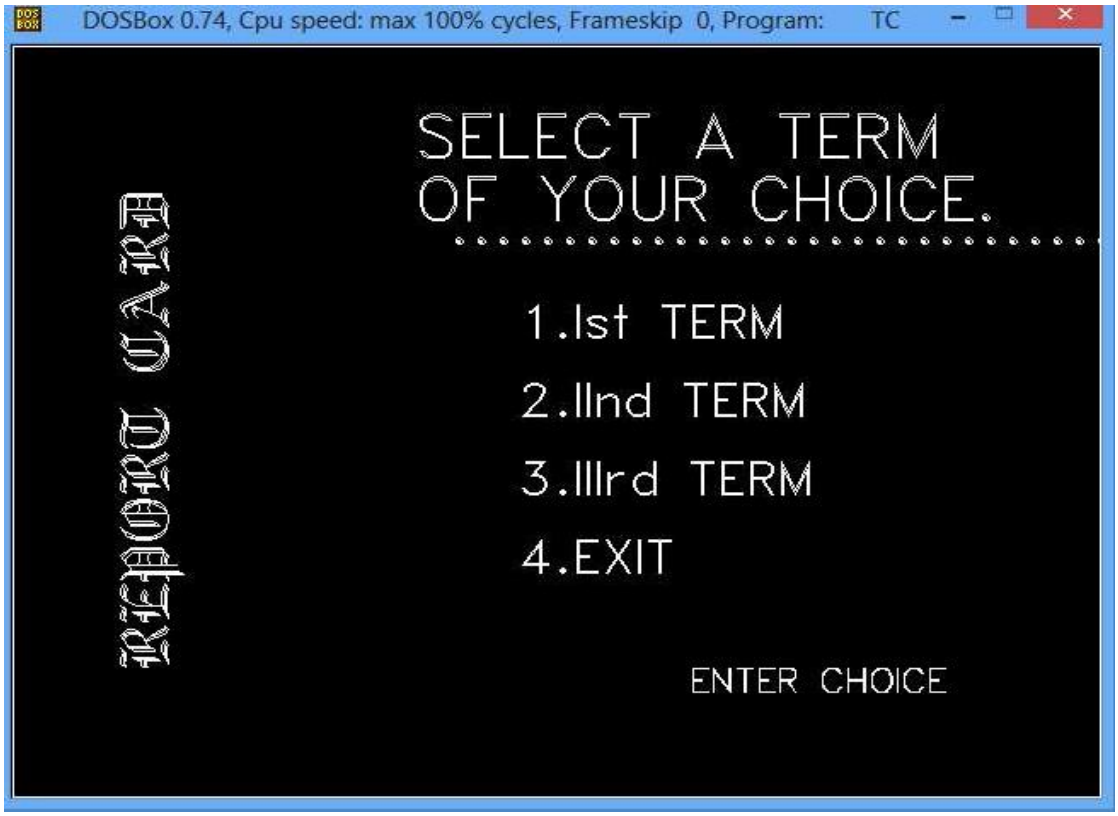


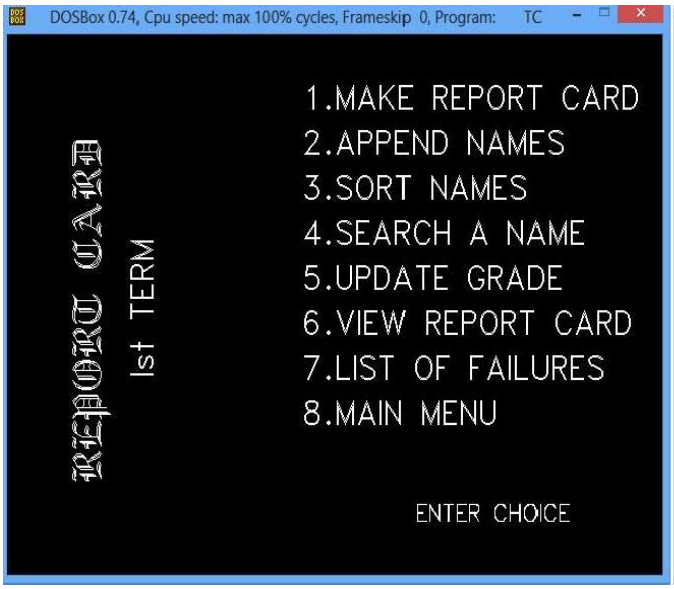
C:\Users\ASUS\Documents\studentrecord.cpp - Dev-C++ 5.11

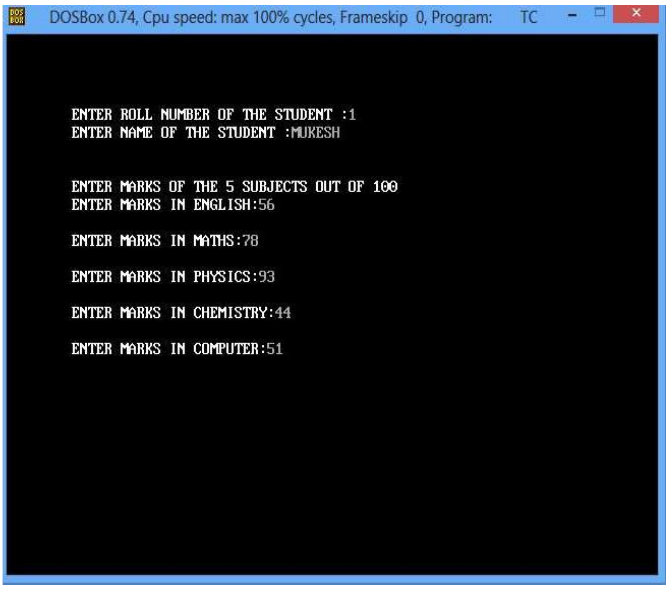
```
    strcpy(s[i].g,"D2");
   r.write((char*)&s[i],sizeof(s[i]));
  }
 getch();
 n+=k;
}

void search()
{
 clrscr();
 cleardevice();
 char name[20];
 int flag=0;
 cout<<"\n";
 cout<<"\t\t\t*-----------*"<<"\n";
 cout<<"\t\t\t| SEARCHING |"<<"\n";
 cout<<"\t\t\t*-----------*"<<"\n"<<"\n";

 step:
 cout<<"\n\tENTER THE NAME TO BE SEARCHED :";
 gets(name);
 cout<<"\n";
 cout<<"ROLL     NAME        MARKS          PERCENTAGE    GRADE"<<"\n";
 for(i=0;i<n;i++)
  {
   t.read((char *) &s[i],sizeof(s[i]));
   if(strcmp(name,s[i].na)==0)
    {
     flag=1;
     s[i].output();
     break;
    }
  }
 if(flag==0)
  {
   cleardevice();
   cout<<"\tSORRY\n";
   cout<<"\tTHE NAME DOES NOT EXIST.\n";
  }
 getch();
}

void update()
{
```

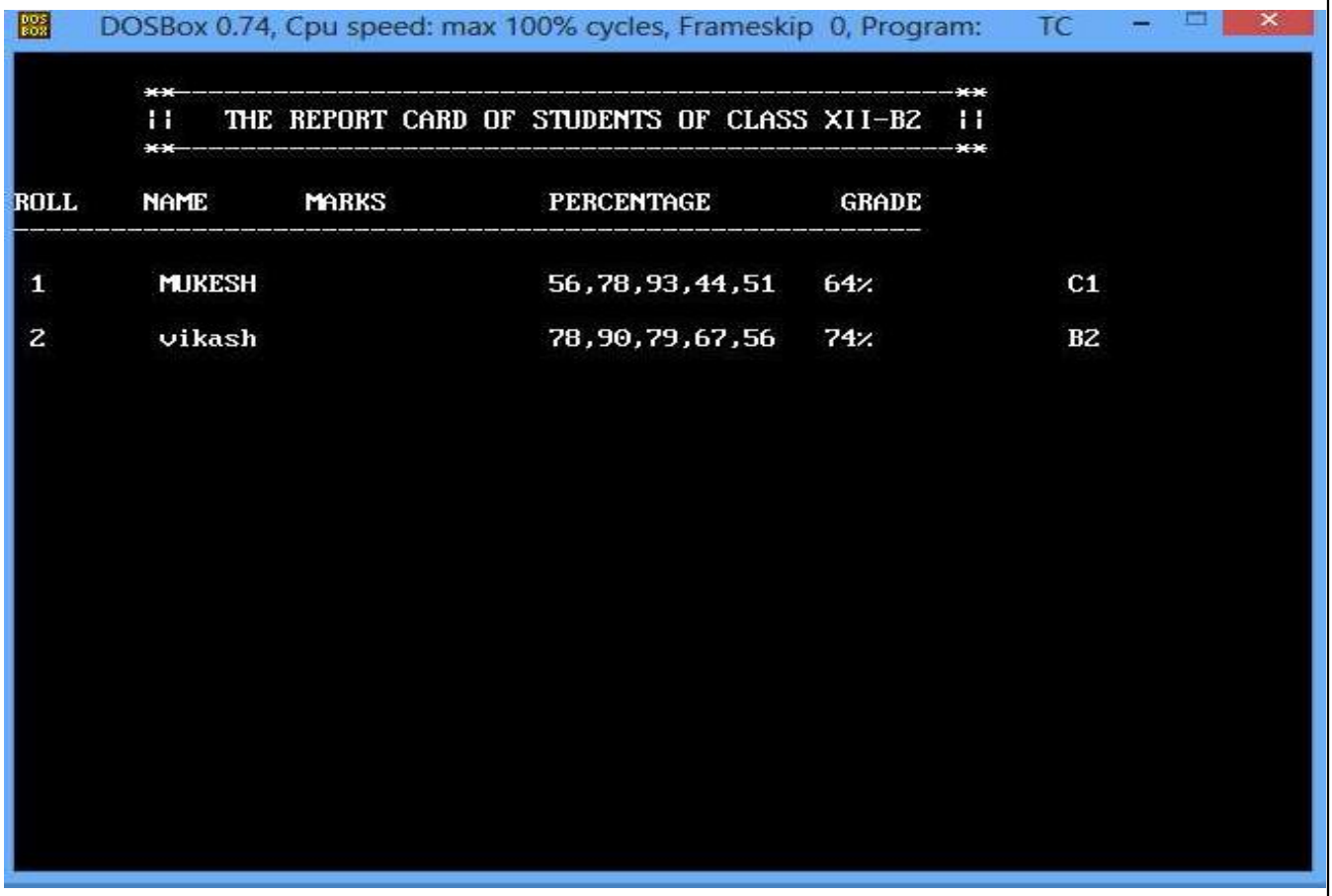
4. OUTPUT SCREENSHOTS






DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC
REPORT CARD
Ist TERM
1.MAKE REPORT CARD
2.APPEND NAMES
3.SORT NAMES
4.SEARCH A NAME
5.UPDATE GRADE
6.VIEW REPORT CARD
7.LIST OF FAILURES
8.MAIN MENU
ENTER CHOICE


DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC
ENTER ROLL NUMBER OF THE STUDENT :1
ENTER NAME OF THE STUDENT :MUKESH
ENTER MARKS OF THE 5 SUBJECTS OUT OF 100
ENTER MARKS IN ENGLISH:56
ENTER MARKS IN MATHS:78
ENTER MARKS IN PHYSICS:93
ENTER MARKS IN CHEMISTRY:44
ENTER MARKS IN COMPUTER:51


DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC
THE REPORT CARD OF STUDENTS OF CLASS XII-B2
ROLL NAME MARKS PERCENTAGE GRADE
1 MUKESH 56,78,93,44,51 64% C1
2 vikash 78,90,79,67,56 74% B2

5. CONCLUSION

Software is efficient in maintaining student's details and can easily perform operations on student's records. This software also reduces the work load of the of teachers in school as all the details are store in computer system and whenever the detail marks of student needed it can be searched and displayed on the screen. In future, this system can launch on a web portal for easy online entry of student's details and marks and student and their parents can login and check the marks and download the reports of their children.

6. BIBLIOGRAPHY

1. http://www.google.com
2. https://projectsgeek.com/
3. https://www.tutorialspoint.com
4. https://www.javapoint.com