**Shree Swami Bachchu Baba**

**Senior Secondary School**

**Keshavpuram, Jalesar Road**

**Firozabad**

**Session 2015-2016**

**Project File**→**Computer Science**

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**Submitted By: - Submitted To:-**

**Name:-Chaklesh Yadav Mrs. Mitali Mukherji**

**Roll No:- 24**

**Class-12th “A”**

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***Acknowledgement***

***It gives me great pleasure to express my gratitude towards our Computer Science teacher Mrs. ‘Mitali Mukherji’ for his guidance, support and encouragement throughout the duration of the project. Without her motivation and help the successful completion of this project would not have been possible.***

**Chaklesh Yadav**

**XII - A**

***CERTIFICATE***

***This is to certify that Chaklesh Yadav of class XII has completed the Computer Science project entitled***

**‘Program to Store Result of a Class’**

***Himself and under my guidance. The progress of the project has been continuously reported and has been in my knowledge consistently.***

***Examiner’s Signature H.O.D. Computer Science***

**SYSTEM REQUIREMENTS**

Hardware Requirements:-

* Processor:-Any i386 or higher
* Ram:-256 MB or more

Software Requirements:-

* Operating System:-Windows XP or higher and IDE compatible OS
* IDE compiler:-Turbo C++ 3.0 or later (Recommonded),Codeblocks

**Program to Store Result of a Class**

#include<conio.h>

#include<iostream.h>

#include<stdio.h>

#include<process.h>

#include<fstream.h>

#include<iomanip.h>

#include<string.h>

class student

{

int rollno; char name[50];

int p\_marks,c\_marks,m\_marks,e\_marks,cs\_marks;

float per; char grade; int gr; int std;

void calculate()

{

per=(p\_marks+c\_marks+m\_marks+e\_marks+cs\_marks)/5.0;

if(per>=91)

{ grade='A';

gr=1;}

else if(per>=81 && per<91)

{ grade='A';

gr=2; }

else if(per>=71 && per<81)

{ grade='B';

gr=1; }

else if(per>=61 && per<71)

{ grade='B';

gr=2; }

else if(per>=51 && per<61)

{ grade='C';

gr=1; }

else if(per>=41 && per<51)

{ grade='C';

gr=2; }

else if(per>=33 && per<41)

{ grade='D';

}

else

grade='F';

}

public:

void search1();

void getdata()

{

cout<<"\nEnter The roll number of student ";

cin>>rollno;

cout<<"\n\nEnter The Name of student ";

gets(name);

p:;

cout<<"\nEnter The marks in physics out of 100 : ";

cin>>p\_marks;

if(p\_marks>100)

goto p;

c:;

cout<<"\nEnter The marks in chemistry out of 100 : ";

cin>>c\_marks;

if(c\_marks>100)

goto c;

m:;

cout<<"\nEnter The marks in maths out of 100 : ";

cin>>m\_marks;

if(m\_marks>100)

goto m;

e:;

cout<<"\nEnter The marks in english out of 100 : ";

cin>>e\_marks;

if(e\_marks>100)

goto e;

cs:;

cout<<"\nEnter The marks in computer science out of 100 : "; cin>>cs\_marks;

if(cs\_marks>100)

goto cs;

calculate();}

void showdata()

{

cout<<"\nRoll number of student : "<<rollno;

cout<<"\nName of student : "<<name;

cout<<"\nMarks in Physics : "<<p\_marks;

cout<<"\nMarks in Chemistry : "<<c\_marks;

cout<<"\nMarks in Maths : "<<m\_marks;

cout<<"\nMarks in English : "<<e\_marks;

cout<<"\nMarks in Computer Science :"<<cs\_marks;

cout<<"\nPercentage of student is :"<<setprecision(2)<<per;

cout<<"\nGrade of student is :"<<grade<<gr;

}

void show\_tabular()

{

cout<<setw(3)<<rollno<<setw(12)<<name<<setw(10)<<p\_marks<<setw(5)<<c\_marks<<setw(5)<<m\_marks<<setw(5)<<

e\_marks<<setw(5)<<cs\_marks<<setw(8)<<setprecision(3)<<per<<" "<<grade<<gr<<endl;

}

int retrollno()

{ return rollno; }

}s,to;

fstream fp,t;

student st;

void write\_student()

{

fp.open("stude.dat",ios::app);

st.getdata();

fp.write((char\*)&st,sizeof(student));

fp.close();

cout<<"\n\nstudent record Has Been Created ";

getch();

}

void display\_all()

{

clrscr();

cout<<"\n\n\n\t\tDISPLAY ALL RECORD !!!\n\n";

fp.open("stude.dat",ios::in);

while(fp.read((char\*)&st,sizeof(student)))

{

st.showdata();

cout<<"\n\n==================================================\n";

getch();

}

fp.close();

getch();

}

void display\_sp(int n)

{

int flag=0;

fp.open("stude.dat",ios::in);

while(fp.read((char\*)&st,sizeof(student)))

{

if(st.retrollno()==n)

{

clrscr();

st.showdata();

flag=1;

}

}

fp.close();

if(flag==0)

cout<<"\n\nrecord not exist";

getch();

}

void modify\_student()

{

int no,found=0;

clrscr();

cout<<"\n\n\tTo Modify ";

cout<<"\n\n\tPlease Enter The roll number of student";

cin>>no;

fp.open("stude.dat",ios::in|ios::out);

while(fp.read((char\*)&st,sizeof(student)) && found==0)

{

if(st.retrollno()==no)

{

st.showdata();

cout<<"\nPlease Enter The New Details of student"<<endl;

st.getdata();

int pos=-1\*sizeof(st);

fp.seekp(pos,ios::cur);

fp.write((char\*)&st,sizeof(student));

cout<<"\n\n\t Record Updated";

found=1;

}

}

fp.close();

if(found==0)

cout<<"\n\n Record Not Found ";

getch();

}

void delete\_student()

{

int no;

clrscr();

cout<<"\n\n\n\tDelete Record";

cout<<"\n\nPlease Enter The roll number of student You Want To Delete";

cin>>no;

fp.open("stude.dat",ios::in|ios::out);

fstream fp2;

fp2.open("Temp.dat",ios::out);

fp.seekg(0,ios::beg);

while(fp.read((char\*)&st,sizeof(student)))

{

if(st.retrollno()!=no)

{

fp2.write((char\*)&st,sizeof(student));

}

}

fp2.close();

fp.close();

remove("stude.dat");

rename("Temp.dat","stude.dat");

cout<<"\n\n\tRecord Deleted ..";

getch();

}

void class\_result()

{

clrscr();

fp.open("stude.dat",ios::in);

if(!fp)

{

cout<<"ERROR!!! FILE COULD NOT BE OPEN\n\n\n Go To Entry Menu to create File";

cout<<"\n\n\n Program is closing ....";

getch();

exit(0);

}

cout<<"\n\n\t\t\tALL STUDENTS RESULT ";

cout<<"\n\t\t\t--------------------\n\n";

cout<<"=============================================================\n";

cout<<"Roll No. Name P C M E CS %age Grade\n";

cout<<"=============================================================\n";

while(fp.read((char\*)&st,sizeof(student)))

{

st.show\_tabular();

}

fp.close();

getch();

}

void result()

{ int ans,rno;

clrscr();

cout<<"\n\n\t Result Menu ";

cout<<"\n\n\n1. Class Result\n\n2. Student Report Card\n\n3.Back to Main Menu";

cout<<"\n\n\nEnter Choice (1/2)? ";

cin>>ans ;

switch(ans)

{

case 1 : class\_result();break;

case 2 : {

do{

clrscr();

char ans;

cout<<"\n\nEnter Roll Number Of Student : ";

cin>>rno;

display\_sp(rno);

cout<<"\n\nDo you want to See More Result (y/n)?";

cin>>ans;

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

break;

}

case 3: break;

default: cout<<"\a";

}

}

void intro()

{

clrscr();

cout<<"\n\n\n\t\t\t S.S.B.B.S.V.M. Firozabad";

cout<<"\n\t\t\t ------------------------";

cout<<"\n\n\t\t\t\t STUDENT";

cout<<"\n\t\t\t\t REPORT CARD";

cout<<"\n\n\t\t\t\t BY :-";

cout<<"\n\n\t\t\t $$$$$ $ $$$$ $ $ $$$ $$$$ $ ";

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cout<<"\n\t\t\t # # ## #### #### # # ";

cout<<"\n\t\t\t # #### #### #### # ";

getch();

}

void entry\_menu()

{

clrscr();

char ch2;

cout<<"\n\n\t Entry Menu ";

cout<<"\n\n\t1.CREATE STUDENT RECORD";

cout<<"\n\n\t2.DISPLAY ALL STUDENTS RECORDS";

cout<<"\n\n\t3.SEARCH STUDENT RECORD ";

cout<<"\n\n\t4.MODIFY STUDENT RECORD";

cout<<"\n\n\t5.DELETE STUDENT RECORD";

cout<<"\n\n\t6.BACK TO MAIN MENU";

cout<<"\n\n\t7.SEARCH BY NAME";

cout<<"\n\n\tPlease Enter Your Choice (1-6) ";

ch2=getche();

switch(ch2)

{

case '1': clrscr();

write\_student();

break;

case '2': display\_all();break;

case '3': int num;

clrscr();

cout<<"\n\n\tPlease Enter The roll number ";

cin>>num;

display\_sp(num);

break;

case '4': modify\_student();break;

case '5': delete\_student();break;

case '6': break;

case '7': to.search1();

default:cout<<"\a";entry\_menu();

}}

int passwords()

{ char p1,p2,p3;

gotoxy(30,10);

cout<<"[ENTER THE PASSWORD]\n";

gotoxy(30,20);

p1=getch();

cout<<"\*";

p2=getch();

cout<<"\*";

p3=getch();

cout<<"\*";

gotoxy(30,20);

if ((p1=='s'||p1=='S')&&(p2=='v'||p2=='V')&&(p3=='m'||p3=='M'))

return 1;

else

return 0;

}

void search1();

void student::search1()

{ clrscr();

char names[20];

t.open("stude.dat",ios::in);

int flag=0;

cout<<"\n";

cout<<"\t\t\t\*-----------\*"<<"\n";

cout<<"\t\t\t| SEARCHING |"<<"\n";

cout<<"\t\t\t\*-----------\*"<<"\n"<<"\n";

cout<<"\n\tENTER THE NAME TO BE SEARCHED :";

gets(names);

cout<<"\n";

cout<<"ROLL NAME MARKS PERCENTAGE GRADE"<<"\n";

for(int i=0;i<2;i++)

{

while(t.read((char \*) &s,sizeof(s)))

{ if(strcmp(names,s.name)==0)

{ flag=1;

s.showdata(); break;

}

}

}

if(flag==0)

{ cout<<"\tSORRY\n";

cout<<"\tTHE NAME DOES NOT EXIST.\n";

}

getch();

}

void main()

{ clrscr();

cout<<"\n\t%% %% ";

cout<<"\n\t%% %% %%%%%%% %% %%%%%% %%%%%% %%%% %%%% %%%%%%%";

cout<<"\n\t%% %% %% %% %% %% %% %% %%% %% %% ";

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cout<<"\n\t%%%%%%%%%% %%%%%%% %%%%%%% %%%%%%% %%%%%% %% %% %%%%%%% ";

cout<<"\n\n\t\t\t $$$$$$$$ $$$$$ ";

cout<<"\n\t\t\t $$ $ $ ";

cout<<"\n\t\t\t $$ $$$$$ ";

cout<<"\n\n\n\tCOMPUTER PROJECT (\*\*\*\*\*\*\*\* RESULT PROJECT>> \*\*\*\*\*\*\*)";

cout<<"\n\n\n\tBY:- Chaklesh Yadav 'XII'";

cout<<"\n\n\n\tSpecial Thanks to: Mrs. Mitali Mukherjee ";

cout<<" \n\n\n\t\t Press any KEY???? to continue: "; getch();

char ch; intro(); clrscr();

int passwords();

if(!passwords())

{

for(int i=0;i<2;i++)

{

clrscr();

cout<<"\nWrong password try once more\n";

if(passwords())

{

goto last;

}

else

{

clrscr();

cout<<"\n\n\t\t\t all attempts failed.....";

cout<<"\n\n\n\t\t\t see you.................. ";

exit(0);

} }

cout<<"\t\t\t sorry all attempts failed............. \n \t\t\tinactive"; }

else do

{ last:; clrscr();

cout<<"\n\n\t Main Menu ";

cout<<"\n\n\t01. RESULT MENU";

cout<<"\n\n\t02. ENTRY/EDIT MENU";

cout<<"\n\n\t03. EXIT";

cout<<"\n\n\tPlease Select Your Option (1-3) ";

ch=getche();

switch(ch)

{

case '1': clrscr();

result(); break;

case '2': entry\_menu(); break;

case '3': clrscr();

cout<<"\n\n";

cout<<" \_/\_/\_/\_/\_/ \_/ \_/ \n";

cout<<" \_/ \_/\_/\_/ \_/\_/\_/ \_/\_/\_/ \_/ \_/ \n";

cout<<" \_/ \_/ \_/ \_/ \_/ \_/ \_/ \_/\_/ \n";

cout<<" \_/ \_/ \_/ \_/ \_/ \_/ \_/ \_/ \_/ \n";

cout<<" \_/ \_/ \_/ \_/\_/\_/ \_/ \_/ \_/ \_/ \n";

cout<<" \n";

cout<<" \n";

cout<<" \n";

cout<<" \_/ \_/ \n";

cout<<" \_/ \_/ \_/\_/ \_/ \_/ \n";

cout<<" \_/ \_/ \_/ \_/ \_/ \n";

cout<<" \_/ \_/ \_/ \_/ \_/ \n";

cout<<" \_/ \_/\_/ \_/\_/\_/ \n\n"; cout<<"..........oOoOo~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"<<endl; cout<<".........oOoOo~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"<<endl; cout<<".........oooo~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~"<<endl;

getch(); exit(0);

default :cout<<"\a";

} }while(ch!='3');

}

**Bibliography**

All the information in the project has been gathered from internet.

**Websites used:**

* Google
* Free encyclopedia on Computer Science
* iCBSE.com
* cppforschool.blogspot.in