//practica No: 11

//wap in c++ program to demonstrate various type of function call

#include<iostream.h>

#include<conio.h>

#include<stdlib.h>

#include<stdio.h>

class STUDENT

{

private:

int rollno;

char name[40];

float marks;

char grade;

public:

void read()

{

cout<<"\nEnter rollno: ";

cin>>rollno;

cout<<"Enter name: ";

gets(name);

cout<<"Enter marks: ";

cin>>marks;

}

void display()

{

calculategrade();

cout<<"Roll no.: "<<rollno<<"\n";

cout<<"Name: "<<name<<"\n";

cout<<"Marks: "<<marks<<"\n";

cout<<"Grade: "<<grade<<"\n";

}

int getrollno()

{

return rollno;

}

float getmarks()

{

return marks;

}

void calculategrade()

{

if(marks>=80)

{

grade = 'A';

}

else if(marks>=60)

{

grade = 'B';

}

else if(marks>=40)

{

grade = 'C';

}

else

{

grade = 'F';

}

}

};

void main()

{

clrscr();

STUDENT tw[2];

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

{

cout<<"\nEnter details for Student "<<i+1<<": ";

tw[i].read();

}

int choice, rno, pos=-1, highmarks=0;

do

{

cout<<"\nMain Menu\n";

cout<<"1.Specific Student\n";

cout<<"2.Topper\n";

cout<<"3.Exit\n";

cout<<"Enter youce choice(1-3): ";

cin>>choice;

switch(choice)

{

case 1:

cout<<"Enter roll no of student whose details you want to know/see: ";

cin>>rno;

for(i=0; i<5; i++)

{

if(tw[i].getrollno()==rno)

{

tw[i].display();

break;

}

}

if(i==5)

{

cout<<"Invalid rollno..!!";

}

break;

case 2:

for(i=0; i<5; i++)

{

if(tw[i].getmarks()>highmarks)

{

pos=i;

highmarks=tw[i].getmarks();

}

}

tw[pos].display();

break;

case 3:

cout<<"Exiting..press a key..";

getch();

exit(1);

default:

cout<<"Wrong choice..!!";

break;

}

}while(choice>=1 && choice<=3);

getch();

}

output:

Enter details for Student 1:

Enter rollno: 162

Enter name: aditya

Enter marks: 85

Enter details for Student 2:

Enter rollno: 163

Enter name: arjun

Enter marks: 78

Main Menu

1.Specific Student

2.Topper

3.Exit

Enter youce choice(1-3): 2

Roll no.: 162

Name: aditya

Marks: 85

Grade: A

Main Menu

1.Specific Student

2.Topper

3.Exit

Enter youce choice(1-3):