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1  #include<iostream>
2  #include<conio.h>
3  using namespace std;
4  class student
5  {
6  private:
7      char name [10],grade;
8      int rollno,marks;
9  public:
10     void view(int n);
11     void getdata();
12     int sendmarks();
13     void display();
14 };
15 int x,i,maxi=0,n,m,index=0;
16 main ()
17 {
18     student s[3];
19     char ch;
20     do
21     {
22         cout<<"Press 1 to enter details"<<endl;
23         cout<<"Press 2 to view details of any student"<<endl;
24         cout<<"Press 3 to view details of the topper"<<endl;
25         cin>>x;
26         switch(x)
27         {
28             case 1:
29                 for(i=0;i<3;i++)
30                     s[i].getdata();
31                 break;
32             case 2:
33                 cout<<"Enter roll no";
34                 cin>>n;
35                 for (int j=0;j<3;j++)
36                     s[j].view(n);
37                 break;
38             case 3:
39                 for (m=0;m<3;m++)
40                 {
41                     if (maxi<=s[m].sendmarks())
42                     {
43                         index=m;
44                     }
45                 }
46                 s[index].display();
47                 break;
48             }
49         cout<<"Do you want to continue? (Y/N) "<<endl;
50         ch=getch();
51     }while(ch!='n');
52 }
53
54 void student::getdata()
55 {
56     cout<<"Enter name: ";
57     cin>>name;
58     cout<<"Enter Roll number: ";
59     cin>>rollno;
60     cout<<"Enter marks: ";
61     cin>>marks;
62     if (marks>=90)
63         grade='A';
64     else if (marks>=70&&marks<90)
65         grade='B';
66     else if (marks>=50&&marks<70)

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67         grade='C';
68     else if (marks>=30&&marks<50)
69         grade='D';
70     else if (marks>30)
71         grade='F';
72 }
73 void student::view(int n)
74 {
75
76     if (n==rollno)
77         display();
78 }
79 int student::sendmarks()
80 {
81     return(marks);
82 }
83
84 void student::display()
85 {
86     cout<<"Name is "<<name<<endl;
87     cout<<"Roll number is "<<rollno<<endl;
88     cout<<"Marks are "<<marks<<endl;
89     cout<<"Grade is "<<grade<<endl;
90 }
91
92
93
```