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Write a program to implement hyarchical inheritance

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#include <iostream>
using namespace std;
class student {
protected:
   int roll_no;
   char name[20];

public:
   get_data1()
   {
      cout << "\n enter the  roll no:";
      cin >> roll_no;
      cout << "\n enter the name:";
      cin >> name;
   }
};
class academic : public student {
protected:
   int marks;
   char grade;

public:
   void get_data2()
   {
      get_data1();
      cout << "\n enter the marks:";
      cin >> marks;
      cout << "\n enter the grade:";
      cin >> grade;
   }
   void display1()
   {
      cout << "\n roll no:" << roll_no;
      cout << "\n name: " << name;
      cout << "\n marks:" << marks;
      cout << "\n grade:" << grade;
   }
```

```
};
class accounts : public student {
protected:
   float fees;

public:
   void get_data3()
   {
      get_data1();
      cout << "\n enter the fees:";
      cin >> fees;
   }
   void display2()
   {
      cout << "\n roll no:" << roll_no;
      cout << "\n name:" << name;
      cout << "\n fees:" << fees;
   }
};
int main()
{
   accounts ob;
   ob.get_data3();
   ob.display2();
   academic obj;
   obj.get_data2();
   obj.display1();
   return (0);
}
```

Output

enter the roll no:3
enter the name:ani
enter the fees:1000
roll no:3
name:ani
fees:1000

Enter the roll no:30
Enter the name:amri
Enter the marks:99
Enter the grade:A
Roll no:30
Name:amri
Marks:99
Grade:A