



```
1 #include <iostream>
2 using namespace std;
3
4 class parent {
5     public:
6         int a;
7         int b;
8
9     virtual void read(){ }
10
11     virtual void display(){
12         cout<<"A: "<<a<<endl;
13         cout<<"B: "<<b<<endl;
14     }
15 };
16
17 class base: public parent {
18     public:
19         int c;
20         int d;
21
22         void read()
23         {
24             cout<<"A: ";
25             cin >>a;
26             cout<<"B: ";
27             cin >>b;
28             cout<<"C: ";
29             cin >>c;
30             cout<<"D: ";
31             cin >>d;
32         }
33
34         void display(){ }
35 };
36
37 int main(){
38     base animal;
39     parent fish;
40
41     cout << endl << "Enter Animal: " <<
42         endl;
43     animal.read();
44
45     cout << endl << "Enter Fish: " << endl;
46     fish.read();
47
48     cout << endl << "Animal: " << endl;
49     animal.display();
50
51     cout << endl << "Fish: " << endl;
52     fish.display();
53
54     return 0;
55 }
```

/tmp/9CLVensbDJ.o

Enter Animal:

A: 25

B: -8

C: 10

D: 12

Enter Fish:

A: 6

B: 43

Animal:

A: 25

B: -8

C: 10

D: 12

Fish:

A: 6

B: 43

=== Code Execution Successful ===



```
1  #include <iostream>
2  using namespace std;
3
4  class Parent {
5  public:
6      int a;
7      int b;
8
9      virtual void read() {
10         cout << "A: ";
11         cin >> a;
12         cout << "B: ";
13         cin >> b;
14     }
15
16     virtual void display() {}
17 };
18
19 class Base : public Parent {
20 public:
21     int c;
22     int d;
23
24     void read() override {
25         Parent::read();
26         cout << "C: ";
27         cin >> c;
28         cout << "D: ";
29         cin >> d;
30     }
31
32     void display() override {}
33 };
34
35 int main() {
36     Parent* animal = new Base();
37     Parent* fish = new Parent();
38
39     cout << endl << "Enter Animal: " <<
40         endl;
41     animal->read();
42
43     cout << endl << "Enter Fish: " <<
44         endl;
45     fish->read();
46
47     cout << endl << "Animal: " << endl;
48     animal->display();
49
50     cout << endl << "Fish: " << endl;
51     fish->display();
52
53     delete animal;
54     delete fish;
55
56     return 0;
57 }
```

^ /tmp/9fSLyLHwfn.o

Enter Animal:

A: 12

B: 24

C: 1

D: -9

Enter Fish:

A: 0

B: 64

Animal:

A: 12

B: 24

C: 1

D: -9

Fish:

A: 0

B: 64

=== Code Execution Successful ===