```
#include<iostream>
using namespace std;
// Base class
class Vehicle {
public:
  string brand = "Ford";
        void honk() {
   cout << "Tuut, tuut! \n";</pre>
  }
};
// Derived class
class Car: public Vehicle {
 public:
  string model = "Mustang";
};
int main() {
 Car myCar;
 myCar.honk();
 cout << myCar.brand + " " + myCar.model;</pre>
 return 0;
}
#include<iostream>
using namespace std;
// Base class
class Employee {
 protected: // Protected access specifier
  int salary;
```

```
};
```

```
// Derived class
class Programmer: public Employee {
 public:
  int bonus;
  void setSalary(int s) {
   salary = s;
  }
  int getSalary() {
   return salary;
  }
};
int main() {
 Programmer myObj;
 int p,t;
 myObj.setSalary(50000);
 myObj.bonus = 15000;
 cout << "Salary: " << myObj.getSalary() << "\n";</pre>
 cout << "Bonus: " << myObj.bonus << "\n";</pre>
 cout<<"Enter value of p and t\n";</pre>
 cin>>p>>t;
 myObj.setSalary(p);
 myObj.bonus = t;
 cout << "Salary: " << myObj.getSalary() << "\n";</pre>
 cout << "Bonus: " << myObj.bonus << "\n";</pre>
```

```
return 0;
}
#include<iostream>
using namespace std;
// Base class
class MyClass {
 public:
        int g,k;
        float r;
  void myFunction() {
   cout<<"Enter value of g,k and r\n";
   cin>>g>>k>>r;
   cout<<"g:"<<g<<"\n"<<"k:"<<k<<"\n"<<"r"</r>
         cout << "Some content in parent class.\n";</pre>
  }
};
// Another base class
class MyOtherClass {
 public:
  void myOtherFunction() {
   cout << "Some content in another class.";</pre>
  }
};
// Derived class
class MyChildClass: public MyClass, public MyOtherClass {
};
int main() {
```

```
MyChildClass myObj;
 myObj.myFunction();
 myObj.myOtherFunction();
 return 0;
}
#include<iostream>
using namespace std;
// Base class (parent)
class MyClass {
 public:
  void myFunction() {
   cout << "Some content in parent class.\n";</pre>
  }
};
// Derived class (child)
class MyChild: public MyClass {
        public:
                int s;
                void b()
                {
                        cout<<"Enter value for s: \n";
                        cin>>s;
                        cout<<"s:"<<s<"\t"<<"\n";
                }
};
// Derived class (grandchild)
class MyGrandChild: public MyChild {
};
```

```
int main() {
 MyGrandChild myObj;
 myObj.b();
 myObj.myFunction();
 return 0;
}
// C++ program to demonstrate hierarchical inheritance
#include <iostream>
using namespace std;
// base class
class Animal {
 public:
  void info() {
    cout << "I am an animal." << endl;</pre>
  }
};
// derived class 1
class Dog : public Animal {
 public:
  void bark() {
    cout << "I am a Dog. Woof woof." << endl;
  }
};
// derived class 2
class Cat : public Animal {
```

```
public:
  void meow() {
    cout << "I am a Cat. Meow." << endl;
  }
};
int main() {
  // Create object of Dog class
  Dog dog1;
  cout << "Dog Class:" << endl;</pre>
  dog1.info(); // Parent Class function
  dog1.bark();
  // Create object of Cat class
  Cat cat1;
  cout << "\nCat Class:" << endl;</pre>
  cat1.info(); // Parent Class function
  cat1.meow();
  return 0;
}
#include<iostream>
using namespace std;
class Base
{
        public:
        virtual void show()
                {
                         cout<<"Base Class\t";</pre>
```

```
}
};
class Derived:public Base
{
       public:
               void show()
               {
                       cout<<"Derived Class";
               }
};
int main()
{
       Base *b;
       Derived d;
       b=&d;
       b->show();
}
#include<iostream>
using namespace std;
class Base
{
       int b;
        protected:
               int a;
        public:
               void show()
               { b=55;
```

```
a=20;
                  cout<<"a="<<a<<"\t";
                        cout<<"Base Class\t";</pre>
                        cout<<"b="<<b<<"\t";
                }
};
class Derived:public Base
{
        public:
                void show()
                {
                        cout<<"Derived Class";</pre>
                }
};
int main()
{
        Base b;
        Derived d;
        b.show();
        d.show();
}
```