



# Homework

1. 請重構以下Java程式碼範例，使之包含Dynamic Polymorphism特性，以消除main中呼叫.sound()的重複程式碼
2. 將重構後的程式碼的zip檔上傳至Moodle作業區



```
public class Cat {  
    void sound() {  
        System.out.println("Cat meows");  
    }  
}
```

```
public class Dog {  
    void sound() {  
        System.out.println("Dog barks");  
    }  
}
```

```
public class Sheep {  
    void sound() {  
        System.out.println("Sheep bleats");  
    }  
}
```



```
public class Main {  
    public static void main(String[] args) {  
        Dog myDog = new Dog();  
        Cat myCat = new Cat();  
        Sheep mySheep = new Sheep();  
  
        myDog.sound();           // Outputs: Dog barks  
        myCat.sound();           // Outputs: Cat meows  
        mySheep.sound();         // Outputs: Sheep bleats  
    }  
}
```