

Answer on Question #59370, Programming & Computer Science, Java, JSP, JSF

Condition

2-We must calculate the banana price by supplying both how many KGs of bananas we are adding to the cart, and the price per KG in the constructor. The getCost() method will return the total cost based on these two values.

3- Lemon: This class also inherits from Fruit. You must supply a price per lemon and how many lemons we are adding through the constructor. The getCost() method will just return the cost of all the lemons.

Code

Task.java

```
public class Task {
    public static void main(String[] args) {
        Apple apple = new Apple(3);
        System.out.println("Apple: " + apple.getCost());

        Banana banana = new Banana(3, 12.5);
        System.out.println("Banana: " + banana.getCost());

        Lemon lemon = new Lemon(6, 1.5);
        System.out.println("Lemon: " + lemon.getCost());
    }
}
```

Fruit.java

```
public abstract class Fruit {
    public abstract double getCost();
}
```

Consts.java

```
public class Consts {
    public static final double applePrice = 24.0; // per dozen
}
```

Apple.java

```
public class Apple extends Fruit {
    private int applesNumber;

    public Apple(int number) {
        this.applesNumber = number;
    }

    @Override
    public double getCost() {
        return (Consts.applePrice / 12.0) * applesNumber;
    }
}
```

Banana.java

```
public class Banana extends Fruit {
    private double bananasWeight;
    private double bananaPrice;

    public Banana(double weight, double price) {
        this.bananasWeight = weight;
        this.bananaPrice = price;
    }

    @Override
    public double getCost() {
        return bananasWeight * bananaPrice;
    }
}
```

Lemon.java

```
public class Lemon extends Fruit {
    private int lemonsNumber;
    private double lemonPrice;

    public Lemon(int number, double price) {
        this.lemonsNumber = number;
        this.lemonPrice = price;
    }

    @Override
    public double getCost() {
        return lemonPrice * lemonsNumber;
    }
}
```

Output

Apple: 6.0

Banana: 37.5

Lemon: 9.0