

File - /Users/seanwelch/Downloads/EggBoxApp/EggBox.java

```
1 public class EggBox{
2     //vars
3     private int eggs;
4     private int boxSize;
5     private int numBoxes;
6     private int leftOverEggs;
7
8     //set
9     public void setEggs(int eggs){
10         this.eggs=eggs;
11     }
12
13     public void setBoxSize(int boxSize){
14         this.boxSize = boxSize;
15     }
16
17     //compute
18     public void computeBoxes(){
19         numBoxes = eggs / boxSize;
20     }
21     public void computeLeftover(){
22         leftOverEggs = eggs % boxSize;
23     }
24
25     //get
26     public int getBoxes(){
27         return numBoxes;
28     }
29     public int getLeftover(){
30         return leftOverEggs;
31     }
32 }
```

```
1 import javax.swing.JOptionPane;
2
3 public class EggBoxApp {
4     public static void main(String[] args){
5
6         //variables
7         int eggs;
8         int boxSize;
9         int numBoxes;
10        int leftOverEggs;
11
12        //objects
13        EggBox egg;
14        egg = new EggBox();
15
16        //inputs
17        eggs = Integer.parseInt(JOptionPane.showInputDialog
18        (null,"Enter a number of eggs"));
19        boxSize = 6;
20
21        //set
22        egg.setEggs(eggs);
23        egg.setBoxSize(boxSize);
24
25        //compute
26        egg.computeBoxes();
27        egg.computeLeftover();
28
29        //get
30        numBoxes = egg.getBoxes();
31        leftOverEggs = egg.getLeftover();
32
33        //output
34        JOptionPane.showMessageDialog(null, "Number of
35        boxes needed " + numBoxes);
36        JOptionPane.showMessageDialog(null, "Number of eggs
37        left over " + leftOverEggs);
38    }
39 }
```