

```
vim MadLib.java
1 /*
2
3 Jared Dyreson
4 CWID: 889546529
5 MadLib.java ->
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7 */
8 // down menu with a selected initial value.
9 import javax.swing.JOptionPane;
10 // InputDialog6a.java
11 public class MadLib {
12     public static void main(String[] args){
13         // Auto generated with caffeine
14
15         // get three pieces of information for the mad lib
16         String animal_name = JOptionPane.showInputDialog(null, "Enter animal name", "Horses");
17         String amount_of_animals = JOptionPane.showInputDialog(null, "Enter animal amount", "7");
18         String action_performed = JOptionPane.showInputDialog(null, "Enter what the animals did", "crossed the street");
19
20         // merge all information into a string
21         String final_output = amount_of_animals + " " + animal_name + "(s) " + action_performed;
22
23         // display this to the user
24         JOptionPane.showMessageDialog(null, final_output, "Mad Libs", JOptionPane.INFORMATION_MESSAGE);
25
26     }
27 }
```

Input

?

Enter animal name

Horses

OK

Cancel

Input

?

Enter animal amount

7

OK

Cancel

Input

?

Enter what the animals did

crossed the street

OK

Cancel

Mad Libs

i

7 Horses(s) crossed the street

OK

vim TaxableIncome.java

1/*
2
3Jared Dyreson
4CWID: 889546529
5TaxableIncome.java -> Calculate your tax amount based on tax brackets
6
7*/
8
9import javax.swing.JOptionPane;
10
11public class TaxableIncome {
12 // helper function so we call it whenever we need
13 public static double calculate_tax(double constant, double income, double taxation_rate, double excess_of){
14 return constant + (taxation_rate*(income - excess_of));
15 }
16 public static void main(String[] args){
17 // Auto generated with caffine
18
19 String income_string = JOptionPane.showInputDialog(null, "Please provide you taxable income", "Tax Information", JOptionPane.QUESTION_MESSAGE);
20 double income = Double.parseDouble(income_string);
21
22
23 // declare and instantiate so we can use them in the table below
24 double constant = 0, taxation_rate = 0, excess_of = 0;
25
26 // determines information used for calculating federal income tax
27
28 if((income >= 0) && (income <= 9325)){
29 constant = 0;
30 taxation_rate = 0.10;
31 excess_of = 0;
32 }
33 else if((income > 9325) && (income <= 37950)){
34 constant = 932.50;
35 taxation_rate = 0.15;
36 excess_of = 9325;
37 }
38 else if((income > 37950) && (income <= 91900)){
39 constant = 5226.25;
40 taxation_rate = 0.25;
41 excess_of = 37950;
42 }
43 else if((income > 91900) && (income <= 191650)){
44 constant = 18713.75;
45 taxation_rate = 0.28;
46 excess_of = 91900;
47 }
48 else if((income > 191650) && (income <= 416700)){
49 constant = 46643.75;
50 taxation_rate = 0.33;
51 excess_of = 191650;
52 }
53 else if((income > 416700) && (income <= 418400)){
54 constant = 120910.25;
55 taxation_rate = 0.35;
56 excess_of = 416700;
57 }
58 else{
59 constant = 121505.25;
60 taxation_rate = 0.3960;
61 excess_of = 418400;
62 }
63
64 // creating message to display
65 String amount = Double.toString(calculate_tax(constant, income, taxation_rate, excess_of));
66 String final_output = "Your federal income tax is \$ " + amount;
67 JOptionPane.showMessageDialog(null, final_output, "Taxable Income Amount", JOptionPane.INFORMATION_MESSAGE);
68 }
69 }

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The image shows two screenshots of Java Swing dialog boxes. The first dialog box is titled "Tax Information" and contains a question mark icon, the text "Please provide you taxable income", a text input field with the value "175000", and "OK" and "Cancel" buttons. The second dialog box is titled "Taxable Income Amount" and contains an information icon, the text "Your federal income tax is \$ 41981.75", and an "OK" button.