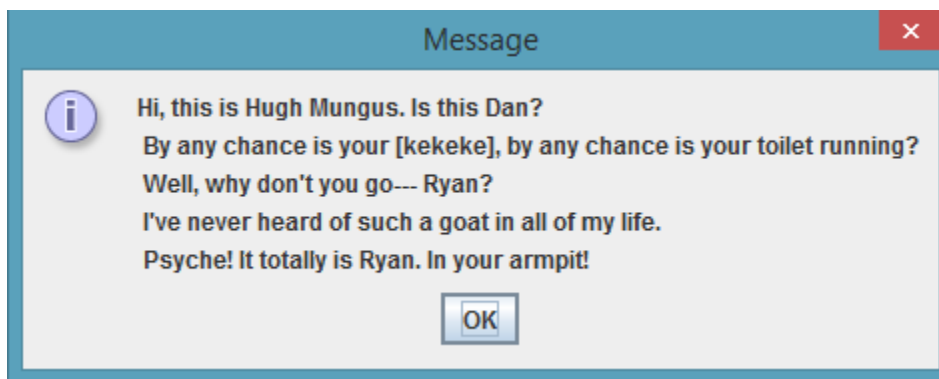


Problem 1:

```
84  /* Ryan Martinez
85  * 9/6/2018
86  * Lab 2 Part 1
87  * Desc: This program reads in different words after prompting for them in
88  * input dialog boxes and stores them in variables. Then the program outputs
89  * them in a formatted string that displays in a message box.
90  */
91
92  String celeb, friend, muffledLaughter, noun1, noun2, yourName, bodyPart;
93  int i = 1;
94
95  celeb = JOptionPane.showInputDialog(null, "Enter a Celebrity name", "MadLibs" + i++, JOptionPane.INFORMATION_MESSAGE);
96  friend = JOptionPane.showInputDialog(null, "Enter a Friend's name", "MadLibs" + i++, JOptionPane.INFORMATION_MESSAGE);
97  muffledLaughter = JOptionPane.showInputDialog(null, "Enter some Muffled Laughter", "MadLibs" + i++, JOptionPane.INFORMATION_MESSAGE);
98  noun1 = JOptionPane.showInputDialog(null, "Enter a Noun", "MadLibs" + i++, JOptionPane.INFORMATION_MESSAGE);
99  noun2 = JOptionPane.showInputDialog(null, "Enter another Noun", "MadLibs" + i++, JOptionPane.INFORMATION_MESSAGE);
100  yourName = JOptionPane.showInputDialog(null, "Enter a Your name", "MadLibs" + i++, JOptionPane.INFORMATION_MESSAGE);
101  bodyPart = JOptionPane.showInputDialog(null, "Enter a Body Part", "MadLibs" + i++, JOptionPane.INFORMATION_MESSAGE);
102
103  JOptionPane.showMessageDialog(null, "Hi, this is " + celeb + ". Is this " + friend +
104  "?\n By any chance is your [" + muffledLaughter + "], by any chance is your " +
105  noun1 + " running?\n Well, why don't you go--- " + yourName + "?\n I've never heard of such a " +
106  noun2 + " in all of my life.\n Psyche! It totally is " + yourName + ". In your " + bodyPart + "!");
```



Problem 2:

```

109      /* Ryan Martinez
110       * 9/6/2018
111       * Lab 2 Part 2
112       * Desc: This program reads in the users taxable income and then calculates
113       * how much tax they owe based on the amount of taxable income they had
114       */
115
116      double income, tax;
117      //formats the numbers so that they will output with commas to look like formal monetary values
118      DecimalFormat formatter = new DecimalFormat("#,###.00");
119
120      //formatter.format(amount)
121
122      income = Double.parseDouble(JOptionPane.showInputDialog(null, "Please provide your taxable income:",
123      "Taxable Income dialog 1", JOptionPane.QUESTION_MESSAGE));
124
125
126      // 10% taxable rate - finished
127      if( income >= 0 && income <= 9325) {
128          tax = income * .1;
129          JOptionPane.showMessageDialog(null, "Your federal income tax is $" + formatter.format(tax));
130      }
131      // 15% taxable rate - finished
132      else if( income >9325 && income <= 37950) {
133          tax = 932.5 + (.15 * (income - 9325));
134          JOptionPane.showMessageDialog(null, "Your federal income tax is $" + formatter.format(tax));
135      }
136      // 25% taxable rate - finished
137      else if( income >37950 && income <= 91900) {
138          tax = 5226.25 + (.25 * (income - 37950));
139          JOptionPane.showMessageDialog(null, "Your federal income tax is $" + formatter.format(tax));
140      }
141      // 28% taxable rate
142      else if( income >91900 && income <= 191650) {
143          tax = 18713.75 + (.28 * (income - 91900));
144          JOptionPane.showMessageDialog(null, "Your federal income tax is $" + formatter.format(tax));
145      }

```


MIND THE OVERLAP HERE, ITS TO SHOW THAT THE CODE IS CONSISTENT BETWEEN BOTH PICTURES

```

141      // 28% taxable rate
142      else if( income >91900 && income <= 191650) {
143          tax = 18713.75 + (.28 * (income - 91900));
144          JOptionPane.showMessageDialog(null, "Your federal income tax is $" + formatter.format(tax));
145      }
146      // 33% taxable rate
147      else if( income >191650 && income <= 416700) {
148          tax = 46643.75 + (.33 * (income - 191650));
149          JOptionPane.showMessageDialog(null, "Your federal income tax is $" + formatter.format(tax));
150      }
151      // 35% taxable rate
152      else if( income >416700 && income <= 418400) {
153          tax = 120910.25 + (.35 * (income - 416700));
154          JOptionPane.showMessageDialog(null, "Your federal income tax is $" + formatter.format(tax));
155      }
156      // 39.60% taxable rate
157      else if( income > 418400){
158          tax = 121505.25 + (.396 * (income - 418400));
159          JOptionPane.showMessageDialog(null, "Your federal income tax is $" + formatter.format(tax));
160      }
161      // invalid input
162      else {
163          JOptionPane.showMessageDialog(null, "This is an invalid input, please try again later");
164      }

```


Taxable Income dialog 1

 Please provide your taxable income:

175000


OK Cancel

Message

 Your federal income tax is \$41,981.75

OK


Taxable Income dialog 1

 Please provide your taxable income:

450000


OK Cancel

Message

 Your federal income tax is \$134,018.85

OK

Taxable Income dialog 1

 Please provide your taxable income:

500

OK Cancel

