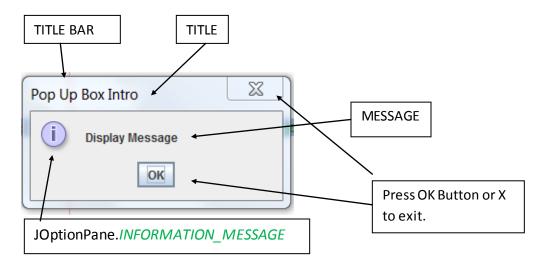
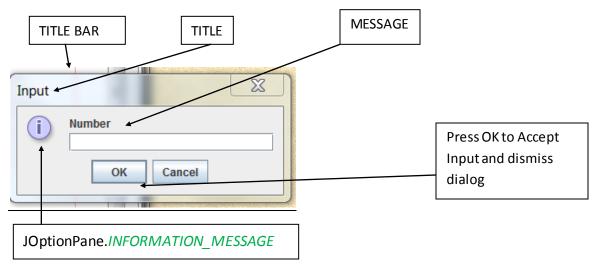
http://docs.oracle.com/javase/tutorial/uiswing/components/dialog.htm

import javax.swing.JOptionPane;



JOptionPane.showMessageDialog(null, "Display Message", "Pop Up Box Intro", JOptionPane.INFORMATION_MESSAGE);



String sample = JOptionPane.showInputDialog(null, "Number", "Input",

JOptionPane. INFORMATION_MESSAGE);

<u>null-</u> the zero-valued ASCII character, also designated by NUL, often used as a terminator, separator or filler

String- character strings. All string literals in Java programs, such as "abc", are implemented as instances of this class.

System.exit(0); -very raw, low-level, and unsafe way to end your program

Parsing Method- is the process of analysing a string of symbols, either in natural language or in computer languages, conforming to the rules of a formal grammar.

int anynumber = Integer.parseInt(sample); - converting the type of string in to Int

Programming Assignment:

<u>Task 1:</u>

Take your program from Assignment 4, Task #2 and change it so the user enters the number of seconds she wants to convert using a JOptionPane.showInputDialog "pop up box" for input. If the user exits out the program by pressing the "X" button, prompt the user with a message and the program should end without an error. Change the program so all outputs are returned in a JOptionPane.showMessageDialog "pop up box".

```
Student Name Kachi lau
                             Student ID 10819338
                                                                                       Point Total
  2
       package javaapplication1;
  3
  4 - import javax.swing.JOptionPane;
       public class JavaApplication1 {
  6
  7
  8
  9
    public static void main(String[] args) {
 10
 11
               int minute, hour, second;
 12
               String input = JOptionPane.showInputDialog(null, "Number", "Input",
 13
 14
               JOptionPane.INFORMATION MESSAGE);
 15
               if(input == null) {
 16
 17
                  JOptionPane.showMessageDialog(null, "You clicked X, The program is exit now!", "OUTPUT ",
 18
                       JOptionPane.INFORMATION_MESSAGE);
 19
                   System.exit(0);
 20
 21
 22
               if(input.length() == 0) {
                   JOptionPane.showMessageDialog(null, "You didn't input any value!", "OUTPUT ",
 23
                          JOptionPane.INFORMATION MESSAGE);
 25
                   System.exit(0);
 26
               1
 27
 28
               second = Integer.parseInt(input);
 29
 30
             if(second < 86400) {
 31
                hour = second / 3600;
                 minute = (second / 60) % 60;
 32
                 second = second % 60;
 33
 34
 35
                 JOptionPane.showMessageDialog(null, hour + " hours " + minute + " minutes "
                    + second + " seconds ", "INPUT ",
 36
 37
                     JOptionPane.INFORMATION_MESSAGE);
 38
 39
 40
             if(second >= 86400) {
                 JOptionPane.showMessageDialog(null, "Seconds exceeds a day!", "OUTPUT ",
 41
 42
                 JOptionPane.INFORMATION MESSAGE);
 43
 44
 45
 46
             System.exit(0);
 47
 48
 49
 50
```

```
Student Name Kachi lau
                             Student ID 10819338
                                                                                       Point Total
  2
       package javaapplication1;
  3
  4 - import javax.swing.JOptionPane;
  5
       public class JavaApplication1 {
  8
    口
          public static void main(String[] args) {
 10
 11
              int minute, hour, second;
 12
 13
               String input = JOptionPane.showInputDialog(null, "Number", "Input",
                      JOptionPane.INFORMATION MESSAGE);
 14
 15
 16
              if(input == null) {
 17
                  JOptionPane.showMessageDialog(null, "You clicked X, The program is exit now!", "OUTPUT",
                         JOptionPane.INFORMATION MESSAGE);
                                                                                              ×
 18
                                                               Input
 19
                  System.exit(0);
 20
                                                                      Number
                                                                (i)
 21
                                                                      699
 22
               if(input.length() == 0) {
 23
                  JOptionPane.showMessageDialog(null, "You di
                                                                           OK
                                                                                  Cancel
 24
                          JOptionPane.INFORMATION_MESSAGE);
 25
                  System.exit(0);
 26
 27
 28
               second = Integer.parseInt(input);
 29
  2
       package javaapplication1;
  3
  4  import javax.swing.JOptionPane;
  5
       public class JavaApplication1 {
  6
  8
  9
    口
           public static void main(String[] args) {
 10
 11
               int minute, hour, second;
 12
               String input = JOptionPane.showInputDialog(null, "Number", "Input",
 13
                      JOptionPane.INFORMATION MESSAGE);
 14
 15
 16
               if(input == null) {
                  JOptionPane.showMessageDialog(null, "You clicked X, The program is exit now!", "OUTPUT ",
 17
                          JOptionPane.INFORMATION MESSAGE);
 18
                                                                  INPUT
 19
                   System.exit(0);
 20
                                                                    (i)
                                                                          0 hours 11 minutes 39 seconds
 21
 22
               if(input.length() == 0) {
                                                                                  OK
 23
                   JOptionPane.showMessageDialog(null, "You didn
                          JOptionPane.INFORMATION MESSAGE);
 24
 25
                  System.exit(0);
 26
 27
 28
               second = Integer.parseInt(input);
 29
```

CIS 36A – 5th In Class / Take Home Assignment – **10 Points**

```
Student ID 10819338
                                                                                       Point Total
Student Name Kachi lau
   4 - import javax.swing.JOptionPane;
       public class JavaApplication1 {
   6
   8
  9 🖃
           public static void main(String[] args) {
  10
  11
               int minute, hour, second;
  12
  13
                String input = JOptionPane. showInputDialog(null, "Number", "Input",
                   JOptionPane.INFORMATION_MESSAGE);
  15
  16
               if(input == null) {
  17
                  JOptionPane.showMessageDialog(null, "You clicked X, The program is exit now!", "OUTPUT ",
  18
                           JOptionPane.INFORMATION MESSAGE);
  19
                   System.exit(0);
  20
                }
  21
                                                                 OUTPUT
                                                                                                X
  22
                if(input.length() == 0) {
  23
                    JOptionPane.showMessageDialog(null, "You di
                                                                        You clicked X, The program is exit now!
                           JOptionPane.INFORMATION MESSAGE);
  24
  25
                   System.exit(0);
                                                                                  OK
  26
  27
  28
               second = Integer.parseInt(input);
  29
  30
               if(second < 86400) {
  31
                  hour = second / 3600;
  32
                   minute = (second / 60) % 60:
```

<u>Task 2:</u>

Using **If** and Logical operator statements. Write a program that computes a single filer's income tax burden.

TAX RATE	Single Filers Income
10%	Up to \$6000
15%	\$6,001 - \$27,950
27%	\$27,951 - \$67,700
30%	\$67,701 - \$141,250
35%	\$141,251 - \$307,050
38.6%	\$307, 051 or more

The user should be able input his data into a JOptionPane.showInputDialog "pop up box"

The output can be a simple system.println output.

Attach Snipping photos displaying output from different tax rates.

Don't worry about output formatting yet.

Student Name Kachi lau

Student ID 10819338

Point Total

```
* To change this license header, choose License Headers in Project Properties.
2
      * To change this template file, choose Tools | Templates
3
      * and open the template in the editor.
5
&
    package javaapplication2;
8 = import javax.swing.JOptionPane;
10
11
     public class JavaApplication2 {
12
13 🖃
         public static void main(String[] args) {
             String input = JOptionPane.showInputDialog(null, "Number", "Input",
14
15
              JOptionPane. INFORMATION MESSAGE);
16
17
             if(input == null) {
                JOptionPane.showMessageDialog(null, "You clicked X, The program is exit now!", "OUTPUT",
18
19
                        JOptionPane. INFORMATION MESSAGE);
20
                 System.exit(0);
21
22
23
             if(input.length() == 0) {
24
                JOptionPane.showMessageDialog(null, "You didn't input any value!", "OUTPUT ",
25
                       JOptionPane.INFORMATION_MESSAGE);
26
                 System.exit(0);
27
28
             Double tax = Double.parseDouble(input);
29
30
31
             if(tax < 0) {
32
                JOptionPane.showMessageDialog(null, "You entered a negative value!", "OUTPUT ",
33
                        JOptionPane. INFORMATION_MESSAGE);
34
                 System.exit(0);
35
36
37
             if(tax >= 0) {
38
                 if(tax < 6001) {
                     tax = tax * 0.10;
39
40
                     JOptionPane.showMessageDialog(null, "Your tax is $" + tax, "OUTPUT ",
                        JOptionPane.INFORMATION_MESSAGE);
41
42
                     System.exit(0);
43
```

```
Point Total
Student Name Kachi lau
                                                Student ID 10819338
                   if((tax >= 6001) && (tax <= 27950)) {
 44
 45
                       tax = tax * 0.15;
 46
                       JOptionPane.showMessageDialog(null, "Your tax is $" + tax, "OUTPUT ",
                          JOptionPane. INFORMATION MESSAGE);
 47
 48
                       System.exit(0);
 49
                   if((tax >= 27951) && (tax <= 67700)) {
 50
 51
                       tax = tax * 0.27;
                       JOptionPane.showMessageDialog(null, "Your tax is $" + tax, "OUTPUT ",
 52
 53
                          JOptionPane. INFORMATION_MESSAGE);
 54
                       System.exit(0);
 55
                   if((tax >= 67701) && (tax <= 141250)) {
 57
                       tax = tax * 0.30;
                       JOptionPane.showMessageDialog(null, "Your tax is $" + tax, "OUTPUT ",
 58
 59
                           JOptionPane. INFORMATION MESSAGE);
 60
                       System.exit(0);
 61
                   if((tax >= 141251) && (tax <= 307050)) {
 62
 63
                       tax = tax * 0.35;
 64
                       JOptionPane.shovMessageDialog(null, "Your tax is $" + tax, "OUTPUT ",
                          JOptionPane. INFORMATION_MESSAGE);
 65
 66
                       System.exit(0);
 67
                   if(tax > 307051) {
 68
 69
                       tax = tax * 0.386;
                       JOptionPane.shovMessageDialog(null, "Your tax is $" + tax, "OUTPUT ",
 70
 71
                         JOptionPane. INFORMATION MESSAGE);
 72
                       System.exit(0);
 73
 74
 75
 76
 77
 78
 79
       }
 80
```

Student Name Kachi lau Student ID 10819338 Point Total

```
* To change this license header, choose License Headers in Project Properties.
3
      * To change this template file, choose Tools | Templates
     * and open the template in the editor.
     package javaapplication2;
8 - import javax.swing.JOptionPane;
10
11
     public class JavaApplication2 {
12
13
         public static void main(String[] args) {
14
             String input = JOptionPane.showInputDialog(null, "Number", "Input",
                    JOptionPane. INFORMATION_MESSAGE);
15
16
17
             if(input == null) {
18
                JOptionPane.shovMessageDialog(null, "You cli Input
19
                        JOptionPane. INFORMATION MESSAGE);
20
                 System.exit(0);
                                                                    Number
                                                               (i)
21
                                                                    5000
22
23
             if(input.length() == 0) {
                                                                         OK Cancel
                 JOptionPane.showMessageDialog(null, "You di
24
25
                       JOptionPane. INFORMATION MESSAGE);
26
                 System.exit(0);
27
28
29
             Double tax = Double.parseDouble(input);
30
31
             if(tax < 0) {
32
                JOptionPane.showMessageDialog(null, "You entered a negative value!", "OUTPUT ",
                    JOptionPane. INFORMATION MESSAGE);
33
34
                 System.exit(0):
35
36
37
             if(tax >= 0) {
                 if(tax < 6001) {
38
39
                     tax = tax * 0.10;
40
                     JOptionPane.showMessageDialog(null, "Your tax is $" + tax, "OUTPUT ",
                        JOptionPane. INFORMATION MESSAGE);
41
42
                     System.exit(0):
43
                  if / /+ov > - 6001) cc /+ov <- 27050) \ /
```

Student Name Kachi lau Student ID 10819338 Point Total

```
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5
     package javaapplication2;
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10
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     public class JavaApplication2 {
12
13 📮
          public static void main(String[] args) {
14
              String input = JOptionPane.showInputDialog(null, "Number", "Input",
                      JOptionPane. INFORMATION MESSAGE);
15
16
              if(input == null) {
17
                 JOptionPane.showMessageDialog(null, "You click
                                                                                                       HTPHT ".
18
                                                                   OUTPUT
19
                         JOptionPane.INFORMATION_MESSAGE);
20
                  System.exit(0);
                                                                    (i)
                                                                          Your tax is $500.0
21
                                                                                  ОК
23
              if(input.length() == 0) {
                 JOptionPane.showMessageDialog(null, "You didn
24
25
                         JOptionPane. INFORMATION_MESSAGE);
26
                  System.exit(0);
27
28
29
              Double tax = Double.parseDouble(input);
30
31
                JOptionPane.showMessageDialog(null, "You entered a negative value!", "OUTPUT ",
32
                         JOptionPane. <a href="mailto:INFORMATION_MESSAGE">INFORMATION_MESSAGE</a>);
33
34
                  System.exit(0);
35
36
37
              if(tax >= 0) {
38
                  if(tax < 6001) {</pre>
39
                      tax = tax * 0.10;
                      JOptionPane.showMessageDialog(null, "Your tax is $" + tax, "OUTPUT ",
40
                          JOptionPane. INFORMATION_MESSAGE);
41
42
                      System.exit(0):
43
```

Student Name Kachi lau Student ID 10819338 Point Total

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12
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         public static void main(String[] args) {
14
             String input = JOptionPane.showInputDialog(null, "Number", "Input",
                    JOptionPane. INFORMATION MESSAGE);
15
16
17
             if(input == null) {
                JOptionPane.showMessageDialog(null, "You cli(
18
                                                             OUTPUT
                        JOptionPane. <a href="INFORMATION_MESSAGE">INFORMATION_MESSAGE</a>);
19
20
                 System.exit(0);
                                                                    You clicked X, The program is exit now!
21
22
         if(input.length() == 0) {
                                                                             OK
23
24
                 JOptionPane.showMessageDialog(null, "You die
25
                        JOptionPane. INFORMATION MESSAGE);
26
                 System.exit(0);
27
28
             Double tax = Double.parseDouble(input);
30
31
             if(tax < 0) {
32
                JOptionPane.showMessageDialog(null, "You entered a negative value!", "OUTPUT ",
33
                        JOptionPane. INFORMATION MESSAGE);
34
                 System.exit(0):
35
36
37
             if(tax >= 0) {
38
                 if(tax < 6001) {
                     tax = tax * 0.10:
39
40
                     JOptionPane.showMessageDialog(null, "Your tax is $" + tax, "OUTPUT ",
41
                        JOptionPane. INFORMATION MESSAGE);
42
                     System.exit(0);
43
                 }
                  if//+or >= 6001) or /+or <= 27050)) (
```