

Name: Sai Sao Kham

Professor: Streller, Dutta

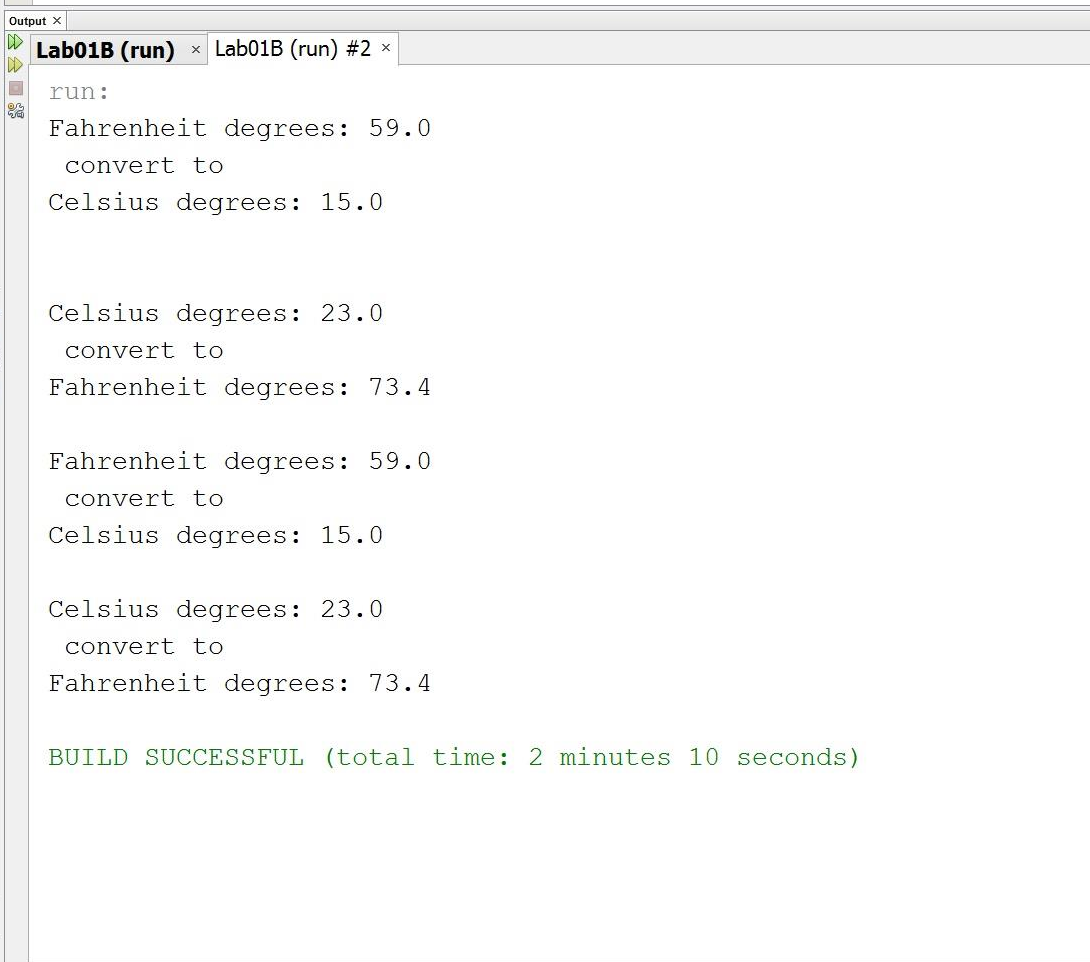
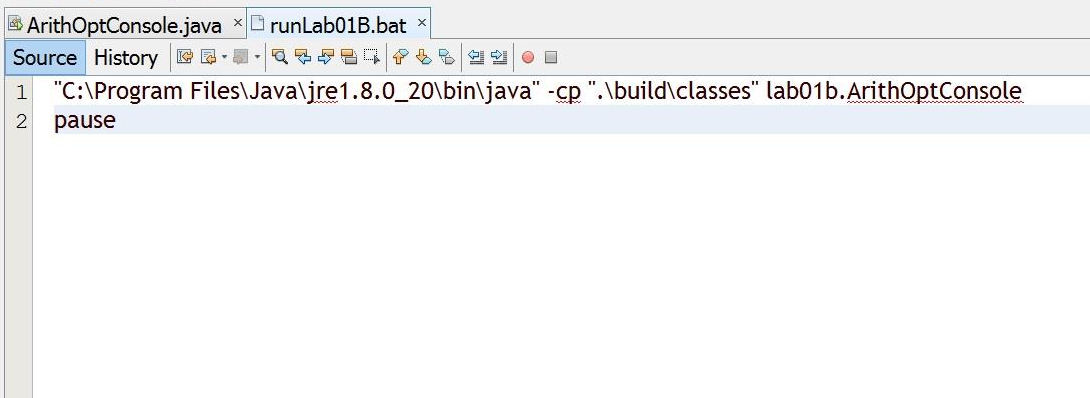
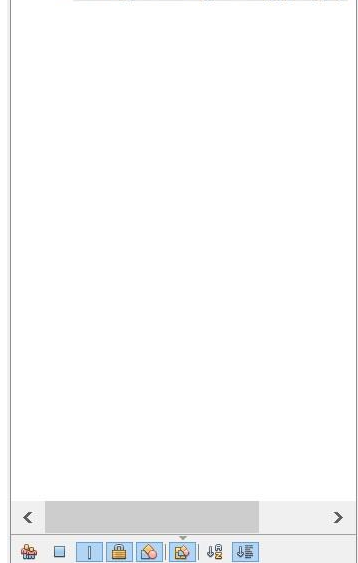
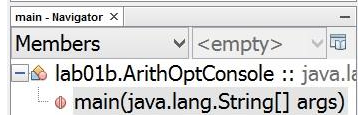
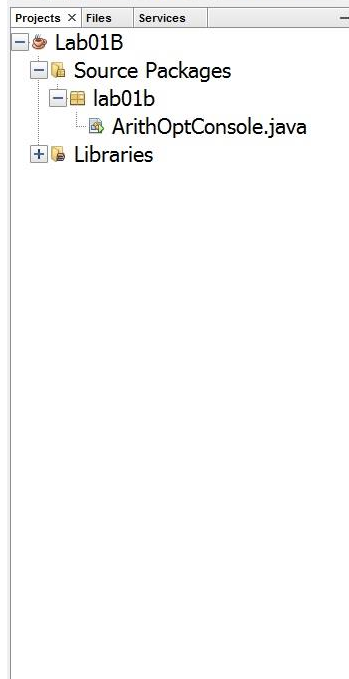
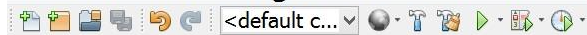
Assignment: cs209\_lab02A

Date: 09/10/2014

This program is about the using of JOptionPane dialogs. Ask user's input in the form of Fahrenheit / Celsius to convert them, and also method of using of batch file as independent platform as jpeg images below.

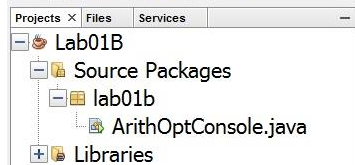
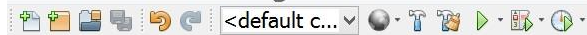


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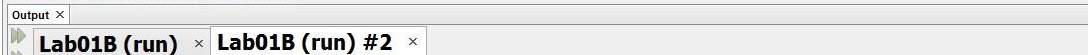
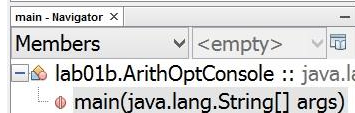
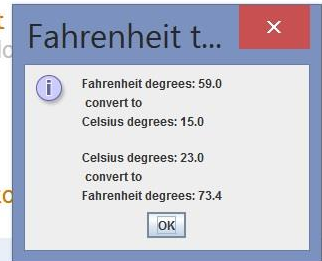




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```
1 package lab01b; //Package name
2
3 import javax.swing.*; //necessary for JOptionPane class
4
5 public class ArithOptConsole {
6
7     public static void main(String[] args) {
8
9         //variables declaration
10        double fahr, fahr2; //var to hold 2 values of Fah
11        double cels, cels2; //var to hold 2 values of Cel
12        String fahrStr, celsStr; //String form for fahrenheit degrees
13        String outputStr = "", outputStr2 = ""; //initialized to null string
14
15        //JOptionPane always returns string type
16        fahrStr = JOptionPane.showInputDialog("Enter fahrenheit");
17        fahr = Double.parseDouble(fahrStr); //convert string to double
18
19        // 5/9.0 is necessary since 5/9 evaluates to 0
20        cels = (5 / 9.0) * (fahr - 32);
21
22        outputStr += "Fahrenheit degrees: " + fahr + "\n convert to
23                    + "\nCelsius degrees: " + cels + "\n";
24
25        //display dialog box conversion Fah from user's input to Cel
26        JOptionPane.showMessageDialog(null, outputStr, "Fahrenheit to Celsius",
27                                    JOptionPane.INFORMATION_MESSAGE);
28
29        //Prompt user's input for Cel in Dialog box
30        celsStr = JOptionPane.showInputDialog("Enter Celsius degrees: ");
```



```
Fahrenheit degrees: 59.0
convert to
Celsius degrees: 15.0

Celsius degrees: 23.0
convert to
Fahrenheit degrees: 73.4
```





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Projects Files Services

Lab01B

- Source Packages
  - lab01b
    - ArithOptConsole.java
- Libraries

main - Navigator

Members <empty>

lab01b.ArithOptConsole :: java.la

- main(java.lang.String[] args)

ArithOptConsole.java x runLab01B.bat x

Source History

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28
29        //Prompt user's input for Cel in Dialog box
30        celsStr = JOptionPane.showInputDialog("Enter Celsius degrees: ");
31    }
32}
```

ArithOptConsole > main >

Output x

Lab01B (run) x Lab01B (run) #2 x

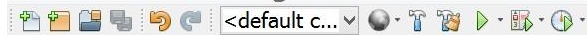
run:







File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help



Projects Files Services

Lab01B

- Source Packages
  - lab01b
    - ArithOptConsole.java
- Libraries

main - Navigator

Members <empty>

lab01b.ArithOptConsole :: java.l

- main(java.lang.String[] args)

ArithOptConsole.java x runLab01B.bat x

Source History

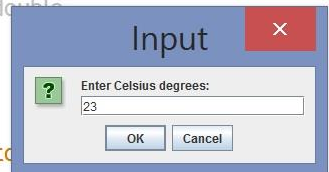
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ArithOptConsole > main >

Output x

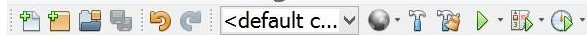
Lab01B (run) x Lab01B (run) #2 x

run:





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Projects | Files | Services

Lab01B

- Source Packages
  - lab01b
    - ArithOptConsole.java
  - Libraries

main - Navigator

Members <empty>

lab01b.ArithOptConsole :: java.lang

- main(java.lang.String[] args)

ArithOptConsole.java | runLab01B.bat

Source | History

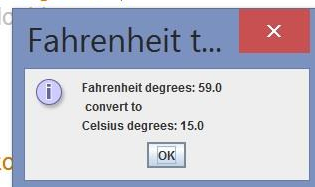
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ArithOptConsole > main

Output

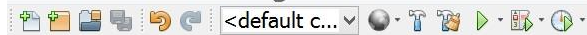
Lab01B (run) | Lab01B (run) #2

run:





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Projects Files Services

Lab01B

- Source Packages
  - lab01b
    - ArithOptConsole.java
- Libraries

ArithOptConsole.java x runLab01B.bat x

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ArithOptConsole &gt; main &gt;

main - Navigator x

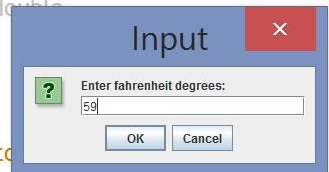
Members <empty>

lab01b.ArithOptConsole :: java.l  
 main(java.lang.String[] args)

Output x

Lab01B (run) x Lab01B (run) #2 x

run:



Building Lab01B (run) #2...

