Description:

In this assignment, you will be exposed to basic I/O operations, arithmetic expressions, and variables. The first two lab assignments will teach you the skills required to write basic C++ problems. The focus of the first two recitations will be problem solving. It is important that you attend both lab and recitation.

Formulae

\[
Celsius = \frac{5}{9} (Fahrenheit - 32)
\]

\[
Kelvin = Celsius + 273.15
\]

Instructions:

1. Preliminary Instructions
   1. Read this prompt completely before modifying the template.
   2. Read the provided template—including all comments.
   3. Refer to the sample output.

2. Function: main
   1. Modify the cout statement
      • Replace MAJOR with your major.
      • Replace NAME with your name.
   2. Prompt the user to enter two integers.
      • Prompt the user to enter num_1.
      • Prompt the user to enter num_2.
   3. Review the Integer Arithmetic section.
   4. Prompt the user to enter two Real Numbers
      • Prompt the user to enter num_3.
      • Prompt the user to enter num_4.
   5. Review the Double Arithmetic section.
   6. Complete the temperature section
      • Prompt the user to enter a temperature in Fahrenheit.
      • Convert the temperature to Celsius and store the result.
      • Convert from Celsius to Kelvin and store the result
      • Output all three temperatures.
      • Modify the appropriate cout statement

3. Reflection
   1. Reread all comments.
   2. Add additional comments where appropriate.
**Sample Output:**

```
CS 150 Lab Spring 2014

My name is NAME.
My major is MAJOR.

Enter a value for num_1: 1
Enter a value for num_2: 2

---

**Integer Arithmetic Results**
---

<table>
<thead>
<tr>
<th>Operation</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addition</td>
<td>3</td>
</tr>
<tr>
<td>Subtraction</td>
<td>-1</td>
</tr>
<tr>
<td>Multiplication</td>
<td>2</td>
</tr>
<tr>
<td>Division</td>
<td>0</td>
</tr>
<tr>
<td>Modulus</td>
<td>1</td>
</tr>
</tbody>
</table>

Enter a value for num_3: 3
Enter a value for num_4: 4

---

**Double Arithmetic Results**
---

<table>
<thead>
<tr>
<th>Operation</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addition</td>
<td>7</td>
</tr>
<tr>
<td>Subtraction</td>
<td>-1</td>
</tr>
<tr>
<td>Multiplication</td>
<td>12</td>
</tr>
<tr>
<td>Division</td>
<td>0.75</td>
</tr>
</tbody>
</table>

Enter a temperature (F): 212
5 items (35.9 kB), free space: 68.4 GB

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**Temperature Results**
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<table>
<thead>
<tr>
<th>Scale</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fahrenheit</td>
<td>212</td>
</tr>
<tr>
<td>Celsius</td>
<td>100</td>
</tr>
<tr>
<td>Kelvin</td>
<td>373.15</td>
</tr>
</tbody>
</table>
```