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\* Programming excercise 70804 \*

\* Maxwell Stephens \*

\* 12:30 TTh \*

\* 70804, 2/17/17 \*

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A program that finds the temperature, as an integer, that is the same in both Celsius and Fahrenheit.

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#include <iostream>

using namespace std;

int main()

{

//declare vars

int fahrenheit;

int celsius;

//set celcius to 100, as requested in the problem

celsius = 100;

//set fahenheit to the equivelency in degrees F of the 100 celcius (in this case, 212)

fahrenheit = ((celsius - 32) \* 5 / 9);

//while loop that will continue decrementing celcius until the fahrenheit and celcius values are perfectly equivilent, in this case -40 degrees.

while (celsius != -40)

{

fahrenheit = ((celsius - 32) \* 5 / 9); //redo the conversion

//cout << celsius << " degrees C= " << fahrenheit << " degrees F\n"; //display output (commented out for a smaller output, if uncommented, proof of loop is evident

celsius--; //decrement

}

fahrenheit = ((celsius - 32) \* 5 / 9); //since the loop ends before it gets to -40, a recalulation is needed

cout << "\*\*\*\*\* " << celsius << " degrees C= " << fahrenheit << " degrees F" << " \*\*\*\* " << endl; //as well as an additional output statement

//this would not be needed with a small adjustment of the while loop, but was done this way to practice different approaches with the same result

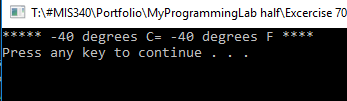
system("pause");

return 0;

}

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SAMPLE OUTPUT:



Self-Evaluation:

4: Works perfectly, code properly documented

I believe I earned 4 points.

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