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\* Name: Daniel DelyMcShane

\* Login: cs232

\* Date: 02/05/2015

\* File: hw3.c

\* Sources of Help: None

\* General description of the program: Prints out conversions between Fahrenheit and Celsius

\* NOTE: Initially I had done all the operations in the printf statement, but I was unsure if using the \*calculations in the printf statements would be considered hard coding

\*So I stored them all in variables to make sure that they weren't "Hardcoded", even though I think it makes it look kind of cryptic and hard to read this way because of redundant variable names

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#include <stdio.h>

int main()

{

//F = C \* 1.8 + 32.0

//C = (F – 32.0) / 1.8

//Initialize Fahrenheit values

double F\_Degree\_1 = 98.60;

double F\_Degree\_2 = 0.00;

double F\_Degree\_3 = -4.20;

//Initialize Celsius Values

double C\_Degree\_1 = -8.35;

double C\_Degree\_2 = 0.00;

double C\_Degree\_3 = 100.0;

//Store Fahrenheit to Celsius Conversions and sum/ave operations

double F\_To\_C1 = (F\_Degree\_1 - 32.0) / 1.8;

double F\_To\_C2 = (F\_Degree\_2 - 32.0) / 1.8;

double F\_To\_C3 = (F\_Degree\_3 - 32.0) / 1.8;

double F\_To\_C\_Sum = F\_To\_C1 + F\_To\_C2 + F\_To\_C3;

double F\_To\_C\_Ave = (F\_To\_C1 + F\_To\_C2 + F\_To\_C3) / 3;

//Store Celsius to Fahrenheit Conversions and sum/ave operations

double C\_To\_F1 = (C\_Degree\_1 \* 1.8) + 32;

double C\_To\_F2 = (C\_Degree\_2 \* 1.8) + 32;

double C\_To\_F3 = (C\_Degree\_3 \* 1.8) + 32;

double C\_To\_F\_Sum = C\_To\_F1 + C\_To\_F2 + C\_To\_F3;

double C\_To\_F\_Ave = (C\_To\_F1 + C\_To\_F2 + C\_To\_F3) / 3;

//print out Fahrenheit to Celsius Conversions

printf("\nConverting Fahrenheit to Celsius:\n");

printf("%.2f degrees F = %.2f degrees C\n", F\_Degree\_1, F\_To\_C1);

printf("%.2f degrees F = %.2f degrees C\n", F\_Degree\_2, F\_To\_C2);

printf("%.2f degrees F = %.2f degrees C\n\n", F\_Degree\_3, F\_To\_C3);

//print out Fahrenheit to Celsius operations

printf("The sum of %.2f, %.2f, and %.2f is %.2f\n", F\_To\_C1, F\_To\_C2, F\_To\_C3, F\_To\_C\_Sum); //prints out the sum of Converted Fahrenheit values

printf("The average of %.2f, %.2f, and %.2f is %.2f\n\n", F\_To\_C1, F\_To\_C2, F\_To\_C3, F\_To\_C\_Ave); //prints out the average of converted Fahrenheit value

//print out Celsius to Fahrenheit operations

printf("Converting Celsiues to Fahrenheit:\n");

printf("%.2f degrees C = %.2f degrees F\n", C\_Degree\_1, C\_To\_F1);

printf("%.2f degrees C = %.2f degrees F\n", C\_Degree\_2, C\_To\_F2);

printf("%.2f degrees C = %.2f degrees F\n\n", C\_Degree\_3, C\_To\_F3);

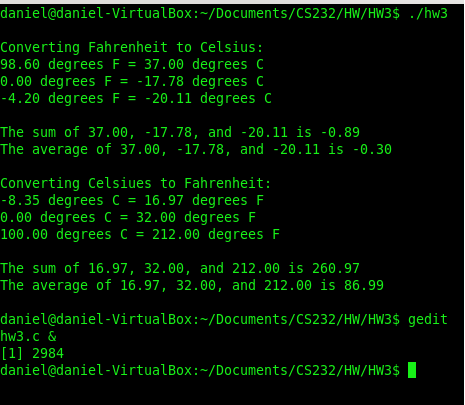
//print out Fahrenheit to Celsius operations

printf("The sum of %.2f, %.2f, and %.2f is %.2f\n", C\_To\_F1, C\_To\_F2, C\_To\_F3, C\_To\_F\_Sum); //prints out the sum of Converted Fahrenheit values

printf("The average of %.2f, %.2f, and %.2f is %.2f\n\n", C\_To\_F1, C\_To\_F2, C\_To\_F3, C\_To\_F\_Ave); //prints out the average of converted Fahrenheit value

return 0;

}



1. I spent .75 hours to finish this assignment.
2. I have 100 (percent) finish this assignment.
3. I expect **A** of this assignment.
4. I think this assignment is **E**  (A: Very Hard, B: Hard, C: Somewhat hard, D: Reasonable, or E: Easy).
5. This assignment helps me learn how to programing with C. Circle a number to indicate how much the project is helpful.

1 ( \* **2**\*) 3 4 5

(Less helpful) (More helpful)

1. I expect **C** homework (A: More, B: Less, C: No more no less)

Comments: Pasting my source code into a word document really hurts my feelings because it ruins the format and I always try to spend a little extra time to make my code look pretty ☺ (And I think it makes it harder to read)