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      * Project: Temperature Converter
     * Code File Updated: 2/24/2022 at 9:31 PM
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     #include <stdio.h>
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      #include <string.h>
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      #include <conio.h>
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     int main() { /* the main() function has the code that's needed for my program to run. */
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        float converttoCelsius(float c); /* creates a float function called converttoCelsius() that has 1 float argument which is c which is the input temperature */
                                 /* which is the temperture that the user enters and wants to have converted to celsius. */
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        float converttoFahrenheit(float f); /* creates a float function called converttoFahrenheit() that has 1 float argument which is f which is the input temperature */
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                                  /* which is the temperature that the user enters and wants to have converted to fahrenheit. */
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        float temperature = 0; // creates a float variable called temperature and is initialized to 0 which is the input temperature that the user enters which will be converted
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                         // into a fahrenheit or celsius depending on what conversion the user wants.
        char *choice: // creates a char pointer called choice that will store the character f or c which will be used to determine what kind of conversion the user wants.
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        printf("\nEnter a Temperature: "); fflush(stdout); // prompts the user to enter a temperature. It flushes the buffer at the end.
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        scanf("%f", &temperature); // scans that input from the user and stores it inside temperature as a float.
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        printf("\nDo you want to convert this temperature to Fahrenheit or Celsius (f/c): "); fflush(stdout); // prompts the user to choose whether they want to convert the temperature that they entered into a celsiu.
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        scanf("%s", choice); // scans that input from the user and stores it inside choice as a string.
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        if (*choice == 't') { // deferences choice and checks if the value insie choice was f and if it was, then it runs the code inside the if statement.
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           printf("\nThe fahrenheit conversion is %0.2f degrees fahrenheit\n", converttoFahrenheit(temperature)); fflush(stdout); // displays the fahrenheit conversion of the temperature that the user entered as a
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        \ // the end of the if statement
        else if ("choice == 'c') { // deferences choices and checks if the value inside choice was c and if it was, then it runs the code inside the else if statement.
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           printf("\nThe celsius conversion is %0.2f degrees celsius\n\n", converttoCelsius(temperature)); fflush(stdout); // displays the celsius conversion of the temperature that the user entered as a float round.
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        } // the end of the else if statement.
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        getch(); // calls the getch() function which waits for the user to press a key so the program doesn't suddenly end and so the user can see the output without it stopping before they can. return 0; // returns a 0 which means the program was successful.
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     } /* the end of the main() function. */
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     float converttoCelsius(float c) { /* this converttoCelsius() function converts the given temperature by the user into a celsius temperature. */
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        /* It has 1 float argument called c which is the input temperature from the user that will be converted into a celsius temperature. */ float celsius = 0; // creates a float variable called celsius and is initialized to 0 which will have the converted celsius temperature from c.
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        celsius = (c - 32) / 1.8; // calculates the celsius conversion of c using the formula for celsius and stores the celsius conversion inside celsius.
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        return celsius; // returns celsius.
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     } /* the end of the converttoCelsius() function. */
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      float converttoFahrenheit(float f) {
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        float fahrenheit = 0; // creates a float variable called fahrenheit and is initialized to 0 which will have the converted fahrenheit temperature from f. fahrenheit = (f * 1.8) + 32; // calculates the fahrenheit conversion of f using the formula for fahrenheit and stores the fahrenheit conversion inside fahrenheit. return fahrenheit; // returns fahrenheit.
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3 } /\* the end of the converttoFahrenheit() function. \*/