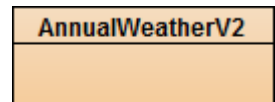


06.02 Assignment Instructions

Instructions: Modify the AnnualWeatherV1 class to display weather data as Fahrenheit or Celsius and inches or centimeters per the user's request. Conversion between units should be done as needed. The output should be precisely formatted.

Note: This is a two-part assignment. You should have completed the first part in the previous lesson.

1. Create a new project called 06.02 Weather Data in the Mod06 Assignments folder.
2. Create a class called AnnualWeatherV2 in the newly-created folder.
3. Copy the previous program and paste it into the new class. Be sure to change the class name.
4. Provide the user with the option to choose a temperature scale of Fahrenheit or Celsius. Do the same for the precipitation scale and the choices of inches or centimeters. The user input should not be case sensitive.
5. Based on the user's input, convert the temperature to Celsius or the precipitation to centimeters. Remember, $5/9 = 0$ but $5.0/9 = 0.5555$.
6. Calculate the average for the temperatures and the total for the precipitation.
7. The output table needs to be formatted neatly. Columns of String data should be left aligned. Columns of numeric data should be aligned on the decimal point. Display numeric values to one decimal place.
8. Your instructor will paste in data from a different location to test your program. So you should also test the program with an alternate set of data as a precaution. Leave both sets in the source code, but comment out one location.
9. When you complete this assignment, turn it in for a grade.



Expected Output: When your program runs correctly, the output should resemble the following screen shot:



Options

Choose the temperature scale (F = Fahrenheit, C = Celsius): f
Choose the precipitation scale (i = inches, c = centimeters): c

```

                Weather Data
            Location: Tallahassee, Florida
Month      Temperature (F)      Precipitation (cm.)
*****
Jan.         51.8                13.7
Feb.         54.8                11.7
Mar.         61.1                16.5
Apr.         66.4                 9.1
May          74.4                12.7
Jun.         80.4                17.5
Jul.         82.4                20.3
Aug.         82.1                17.8
Sep.         78.9                12.7
Oct.         69.1                 8.4
Nov.         60.4                 9.9
Dec.         53.7                10.4
*****
      Average: 68.0      Annual: 160.8
```

