

# The Weather Report (20pts)

Due Tuesday, 22 August 2017

You have been hired to write a Java program in order to unify American weather reports with the rest of the world. That is, you must write a program that converts the temperature from degrees Fahrenheit to degrees centigrade. The user will input the temperature in Fahrenheit and the program will then print the temperature in centigrade. Recall the formula for conversion:

$$C = \frac{5}{9} * (F - 32)$$

where  $F$  is the temperature in Fahrenheit and  $C$  is the temperature in centigrade.

## Sample Listing

```
Welcome. Please enter your temperature in degrees F.  
>>12  
The temperature is -11.11 degrees centigrade.  
Have a nice day!
```

Note that your program need not match this listing exactly.

## Extra Credit

For 2 points of extra credit, have your program also print a statement indicating if the temperature is hot, cold, or neither. A Fahrenheit temperature is cold if it is below 32 degrees and is hot if it is above 90 degrees. If the temperature is between 32 and 90, do not print any statement.

## Hand in and notes

Please turn in a listing (print-out) of your program in addition to uploading it to GitHub. Be sure that your name is in comments at the top of your page.

Be sure to use a double variable for the temperature you are converting to, as well as commenting the program judiciously. Points will be deducted for a lack of comments!