

Richard Vannoy's Flowcharting and Pseudocode Course

Lab for Sequential Operations

Create the pseudocode and the flow chart for the following task:

Task: Given a temperature in degrees Fahrenheit, convert it to degrees centigrade.

Description: The algebraic formula for temperature conversion is:

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

Also can be written as: $C = 5/9 (^{\circ}F - 32)$

Where C = Temperature in degrees centigrade

F = Temperature in degrees Fahrenheit

Part 1: Write pseudocode that includes the following requirements:

- Steps should be sequentially numbered.
- The user begins at Step 1 and must eventually stop at the last step called "End".

Part 2: Draw the flow chart to solve this problem. Processing should begin at a "Start" oval and terminate at an "End" oval.

Select the shapes you need from the following:



Test Results: Test your results. Entering the freezing point of water (32 degrees Fahrenheit) should result in a centigrade temperature of 0 degrees; entering the boiling point of water (212 degrees Fahrenheit) should result in an answer of 100 degrees centigrade.

See one possible answer in the supplemental PDF document for this lesson.