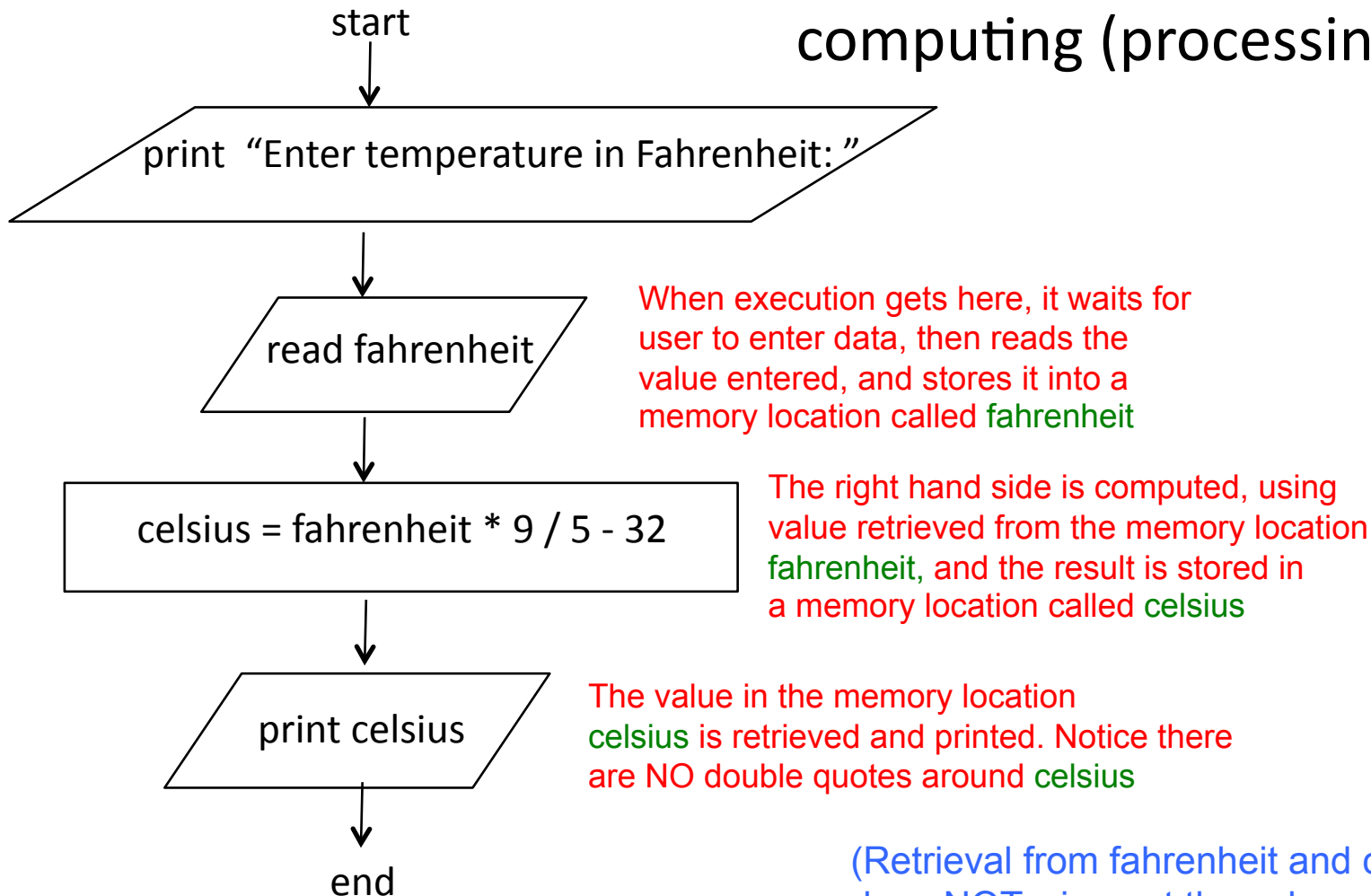


CS 111  
Introduction to Computer Science

Fall 2015

Lecture 4: Sep 15, 2015

# Fahrenheit to Celsius conversion: Printing (output), reading (input), computing (processing)



(Retrieval from **fahrenheit** and **celsius** does NOT wipe out the values – they are still there, and can be reused as many times as needed.)

# Does The Program Work Correctly?

Check by running it for various input (fahrenheit) values, and compare the output (celsius) value against the expected (correct) value. This process is called TESTING

Input (Fahrenheit)	Output (Celsius)	Expected Result
32	25.6	0
100	148	37.78
-40	-104	-40
-300	-572	-184.44

The results of testing the program show that it does NOT work correctly.

$$\text{celsius} = \text{fahrenheit} * 9 / 5 - 32$$

$$\text{celsius} = (\text{fahrenheit} - 32) * 5 / 9$$

Retest to confirm that  
this is correct