**CHAPTER 2: Lesson 5**

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| **Objective :** | Convert temperature: Write a function that outputs a conversion-table for Celsius and Fahrenheit temperatures. The input of the function should be two numbers: Ti and Tf, specifying the lower and upper range of the table in Celsius. The output should be a two column matrix: the ﬁrst column showing the temperature in Celsius from Ti to Tf in the increments of 1o C and the second column showing the corresponding temperatures in Fahrenheit. To do this, (i) create a column vector C from Ti to Tf with the command C= [Ti:Tf]’, (ii) calculate the corresponding numbers in Fahrenheit using the formula [F = 9 5C + 32], and (iii) make the ﬁnal matrix with the command temp = [C F]; |
| **MATLAB**  **Code:** | function temp = celtofr(ti,tf);  C= [ti:tf]';  F= (9/5)\*C + 32;  temp = [C F]; |
| **Output:** | >> celtofr(0,10)  ans =  0 32.0000  1.0000 33.8000  2.0000 35.6000  3.0000 37.4000  4.0000 39.2000  5.0000 41.0000  6.0000 42.8000  7.0000 44.6000  8.0000 46.4000  9.0000 48.2000  10.0000 50.0000 |