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**EE 289 – Homework Chapter 2 C**

21. Write a program to convert miles to kilometers. (Recall that 1 mi = 1.6093440 km.)
28. Write a program to compute the area of a rectangle with sides a and b. (Recall that  $A = a \times b$ .)
41. Write a program that reads a positive number then computes and prints the logarithm of the value to base 2. For example, the logarithm of 8 to base 2 is 3 because  $2^3 = 8$ .
43. Assume that we would like to use linear interpolation to determine the coefficients of lift for additional flight-path angles that are between -4 degrees and 21 degrees. Write a program that allows the user to enter the data for two points and a flight-path angle between those points. The program should then compute the corresponding coefficient lift.