Lab 2: Basics Python Programming

- 1. Write a script to define and convert a *string* variable named *s* to an *integer* value. So if *s* were associated with "41" then the resulting *integer* would be 41. Then convert this string variable into a float value.
- 2. Calculate the BMI of a person using the formula BMI = Weight in Pounds / (Height in inches × Height in inches) × 703 and assign the value to the variable bmi. Write a script to do this.
- 3. In mathematics, the *Nth* harmonic number is defined to be 1 + 1/2 + 1/3 + 1/4 + ... + 1/N, where *N* is a positive integer. So, the first harmonic number is 1, the second is 1.5, the third is 1.83333, and so on. Assume that *hn* is a variable whose value is the *Nth* harmonic number. Write a script to calculate the value of *hn* using *N* given on the command line.
- 4. Write a script that prints a uniformly distributed random number between -1 and 1. The number should be written with four decimals as implied by the **%.4f** format.