

BIL111 - Programming
Lab 6: Functions

Average: Write a function called *avg* that takes two doubles as parameters and returns the average of the two doubles.

Powers: Write a function called *negpow* that uses the type double for the first parameter and that works correctly for negative numbers. For example, the call *negpow*(-2.0, 3) should return $-2.0 * -2.0 * -2.0$, or -8.0, and the call *negpow*(4.0, -2) should return $1/16$, or 0.0625.

Digit Range: Write a function called *digitRange* that accepts an integer as a parameter and returns the range of values of its digits. The range is defined as 1 more than the difference between the largest and smallest digit value. For example, the call of *digitRange*(68437) would return 6 because the largest digit value is 8 and the smallest is 3, so $8 - 3 + 1 = 6$. If the number contains only one digit, return 1.