Python Exercises Week 3

1. Assume the variable sales references a float value equal to 5.9988. Write a statement that displays the value rounded to two decimal points.
2. Assume the following statement has been executed:

number = 1234567.456

Write a Python statement that displays the value referenced by the number variable formatted as

1,234,567.5

1. Write an if-else statement that displays 'Speed is normal' if the speed variable is within the range of 24 to 56. If the speed variable’s value is outside this range, display 'Speed is abnormal'.
2. Write a nested decision structures that performs the following:

If amount1 is greater than 10 and amount2 is less than 100, display the greater of amount1 and amount2. If the values are the same, print “Both values are the same”.

1. Using the SCTCC grading scale as a baseline, create a program using nested ifs that will allow a user to enter a numerical value, and based off of that value, display whether that grade is an A, B, C, or D.
2. Write a while loop that asks the user to enter two numbers. The numbers should be added and the sum displayed. The loop should ask the user if he or she wishes to perform the operation again. If so, the loop should repeat, otherwise it should terminate.
3. Write a for loop that displays the following set of numbers:

0, 10, 20, 30, 40, 50 . . . 190

1. Write code that prompts the user to enter a positive nonzero number and validates the input.
2. Write code that prompts the user to enter a number in the range of 1 through 100 and validates the input.