SD212 6-Week Exam Practice

1. Suppose a file called inventory.csv shows a drug store's inventory, like this:

item,each,quantity
toothpaste,2.50,5
bacon,12.00,3
lollipops,0.50,8

Write a Python program that reads in this file and prints out the total value (price times quantity) of all items worth less than \$10 each.

(For the example above it would be 2.50 * 5 + 0.50 * 8 = 16.50.)

Don't worry about the formatting of the output number.

2. For the same inventory.csv file as above, write a bash pipeline that will count how many items contain the word tooth.

3. For the same inventory.csv example, what would be the statistical data type of each column in this file?

4.	For the same inventory.csv file as above, write a bash script that lists any items the store is out of (i.e., their quantity equals 0.)
	Your script should print out <i>only</i> the names of these items, one per line.
E	For the same kind of inventory.csv file as above, write a bash script that identifies and prints out any
ο.	mis-formatted lines. (E.g., wrong number of columns, second column is not a price, or third column is not a
	number.)
6.	For the same kind of inventory.csv file as above, write a bash script that modifies the file so that the prices
	are all whole dollar amounts ending in .00 (rounding down).

7.	7. Write a bash script that displays the 5th line of every .txt file in a director	ry called books.
8.	8. Write a bash script that counts the total number of lines mentioning cof:	fee or tea in any .txt file in a
	directory called books.	
9.	9. Write a bash script that moves any file in the directory books that menti-	ions dragons to a new directory
	called fantasy.	

10.	Write a Python program that asks the user for a filename, then tries to open that file and determine how many social security numbers written like 078–05–1120 are in the file. If the file doesn't exist, print a suitable error message and exit.
11	Write a Python program that reads in lines of input from the terminal, then prints out the same line but any
11.	social security numbers redacted, so for example 078-05-1120 would become 078-05-XXXX.
12.	Write a bash script that does the same thing as the previous problem, reading input lines and redacting SSNs.