Practice problems for the CS50P Week 2

These are practice problems.

p2total

Create a function **total(items, prices)** that takes two separate lists (one containing items and the other containing their corresponding prices), calculates and returns the total cost of the shopping list. Then, print the shopping list with prices and the total cost.

Example

```
p2total/ $ python p2total.py
Apple 3
Banana 5
Carrot 7
Total = 15
```

Submitting your code

```
submit50 okskola/cs50addp/main/p2total
```

p2ftoc

Write a program that lets the user to input a list of five temperatures in Fahrenheit and converts each one to Celsius. The program should print both the original Fahrenheit temperatures and the converted Celsius temperatures side by side rounded to one decimal digit.

Example

```
p2ftoc/ $ python p2ftoc.py
Fº = -40
Fº = 32
Fº = 68
Fº = 98.6
Fº = 212.00001
-40.0ºF = -40.0ºC
32.0ºF = 0.0ºC
68.0ºF = 20.0ºC
98.6ºF = 37.0ºC
212.0ºF = 100.0ºC
```

Testing and submitting your code

```
check50 okskola/cs50addp/main/p2ftoc
submit50 okskola/cs50addp/main/p2ftoc
```

p2digitnum

Task from Latvian 34th Informatics Olympiad warm-up competition.

Any natural number can be expressed in words by naming the digits in its decimal notation in sequence. Furthermore, it's common practice to describe a sequence of consecutive digits as the "count of digits in this group," followed by the name of the digit represented. Always the group of identical digits is taken in the longest possible length.

For example, the number 331444 expressed in words would be "two threes, one one, three fours." This written form in words can again be converted into a numerical form by writing the individual number words with digits without separating symbols: 231134. With this number, the operation can be performed again, and then you get 1213211314.

Write a program that takes two numbers as input: X and N, and outputs the result (number) of performing the described operation on number X, N times.

Example

```
p2digitnum/ $ python3 p2digitnum.py
X=331444
N=2
1213211314
```

Testing and submitting your code

```
check50 okskola/cs50addp/main/p2digitnum
submit50 okskola/cs50addp/main/p2digitnum
```