CS150 - More if statements

Announcements

- HW1 - email grade tonight

- HW3 due in 1 week
  - can work w/ partner
  - based on Ch 2 question, so don't need loops or ifs.
Quit recap:

food = ['eggs', 'peas', 'broccoli', 'salt']
for ingredient in foods:
paint ingredient [2]
If statements

Ex:

weight = float(input('How many pounds does your suitcase weight?'))

if weight > 50:
    print('There is a $25 charge for luggage that heavy.')
    print('Thank you for your business.')
If-else

temp = float(input('What is the temperature? '))

if temp > 70:
    print('Wear shorts. ')
else:
    print('Wear long pants. ')

print('Let's go outside! ')

Nested else:

if temp > 70:
   print 'Wear shorts.'
else:
   if temp > 60:
      print 'Wear pants and a tshirt.'
   else:
      print 'Wear pants, and don't forget a coat.'

Can get difficult with spacing...
```python
if temp > 70:
    print 'Wear shorts.'
elif temp > 60:
    print 'Wear pants and a tshirt.'
elif temp > 30:
    print 'Wear pants, and don't forget a coat.'
else:
    print 'Bundle up!'```

Another idea:

Program to let the user enter a number.

Compare it to "secret" number, tell them if they guessed correctly or were too low or too high.
Practice:

P. 4.20

```python
for x in range(20):
    if x % 9 == 0:
        print(x, 'is divisible by 9',
    elif x % 3 == 0:
        print(x, 'is divisible by 3',

Output?
(cod it to check if you're correct)
```

P. 4.19

Write code that, given a list of strings, produces a new list of short words, that includes all original strings of length 3 or less.