Returning Tuples for Unpacking

Recall we can loop through a list of tuples and unpack the values within them

```
In [1]:
          stock prices = [('APPL', 200), ('GOOG', 400), ('MSFT', 100)]
 In [2]:
          for item in stock prices:
              print(item)
          ('APPL', 200)
          ('G00G', 400)
          ('MSFT', 100)
         We can individually grab and item in the tuple like so:
 In [4]:
          for ticker, price in stock prices:
              print(ticker)
         APPL
         G00G
         MSFT
 In [6]:
          for ticker, price in stock prices:
               print(price+(0.1*price))
         220.0
         440.0
         110.0
         Simlarly, functions often return tuples, to easily return multiple results for later use
In [10]:
          work hours = [('Abby',100), ('Billy', 4000), ('Cassie', 800)]
         The employee of the month function will return both the name and number of hours worked for
         the top performed *judged by number of hours worked)
In [11]:
          def employee check(work hours):
              # Set some max value to initially beat, like zero hours (set a default value)
              current max = 0
               # Set some empty value before the loop
              employee of month = ''
              for employee, hours in work hours:
                   if hours > current_max:
                       current max = hours
                       employee of month = employee
                   else:
                       pass
               # Notice the indentation here
               return (employee of month, current max)
In [12]:
          employee check(work hours)
          ('Billy', 4000)
Out[12]:
```

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```
result = employee_check(work_hours)
In [16]:
          name,hours = employee_check(work_hours)
In [17]:
           result
          ('Billy', 4000)
Out[17]:
In [18]:
          name
          'Billy'
Out[18]:
In [19]:
          hours
         4000
Out[19]:
         Pictured above, we performed tuple unpacking with a function call.
 In [ ]:
```