Group Exercise 06: Function Design Recipe
CPSC 301 - 2016W2

Perform the first five steps in the function design recipe to create the docstring, header and body for a function, total_price_with_tax, that:
- takes an original price and a tax rate greater than 0 (e.g. 7 means 7% tax).
- returns the total price (original price plus the tax owing) rounded to two decimal places

The first part of the header is written below.

As a reminder, the function design recipe involves the following steps:
1. Examples (make sure you consider what limits and combinations are important to test)
2. Type contract (including preconditions).
3. Header.
4. Description.
5. Body.
6. Test. (Do not do this step today.)

```python
def total_price_with_tax(original_price, tax_rate):
    ''' (number, number) -> float
    precondition: original_price and tax_rate both > 0
    Calculates the tax on a price and returns the total price, including the tax owing, rounded to two decimal places.
    Examples:
    >>> total_price_with_tax(10,0.1)
    10.01
    >>> total_price_with_tax(1,10)
    11
    >>> total_price_with_tax(100,7)
    107.0
    >>> total_price_with_tax(1000.55,5.5)
    1155.58
    '''
    tax = original_price * tax_rate/100.0
    return round(original_price + tax,2)
    #Main Program
```

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