CSC108H Worksheet: Function Design Recipe

1. Function Design Recipe

Following the Function Design Recipe, write a function that meets this description:

This function returns a string containing a particular word repeated a particular number of times. For example, someone should be able to call the function to repeat "Marcia " three times and the function should return "Marcia Marcia Marcia ", or call the function to repeat "Buffalo " eight times and have it return "Buffalo Buffalo Buffalo Buffalo Buffalo Buffalo Buffalo ".

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	Examples
	Type Contract
	Header
	Description
	Code the Body
	Test

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2. Function Design Recipe: Type Contract and Description

Consider this code:

```
def number_of_cents(change):
    """
```

```
>>> number_of_cents(1.25)
25
>>> number_of_cents(20.00)
0
"""

dollar_remainder = change % 1
cents = dollar_remainder * 100
return round(cents)
```

- (a) Add the missing **Type Contract**.
- (b) The description of this function is poor:

The number of pennies left when you take away all the dollars from an amount of money.

In the space provided in the docstring, write a better function description.

3. Function Design Recipe

Folloing the Function Design Recipe, write the following function.

Function name:	Description
$(\text{parameter types}) \rightarrow \text{return type}$	
calculate_tax:	The first parameter is a bill and the second is a tax rate
$(ext{number}, ext{number}) ightarrow ext{number}$	(a rate between 0.0 and 1.0 inclusive).
	Return the amount of tax to be paid on this bill.