Return

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Simulation: Function with Return

Make a python program that will input two two integers and will create the following functions with the specified tasks.

- a. Function that will compute the sum of two integers.
- b. Function that will compute the product of two integers.
- c. Function that will compute the difference if the first integer is greater than 2^{nd} integer.
- d. Function that will compute the remainder if the 2^{nd} integer is greater than the first integer.
- e. Function that will compute the quotient if the 1^{st} integer is greater than the 2^{nd} integer. No addition, multiplication, division and modulus operation with 0 value.
- f. No arithmetic operation with 0 value.

```
[2]: from IPython.display import display, Math
```

```
[3]: # universal function for getting the input.
# this function is not included in the task.
# this to avoid redundancy in the code and make it more readable the ever before
def input_num():
    x = int(input("1st number: "))
    y = int(input("2nd number: "))
    return x, y
```

```
[4]: # for flagship, check if the value is 0
# this function is not included in the task.
def is_zero(x, y):
    if x == 0 or y == 0:
        display(Math(r'\text{No Operation Perform}'))
        return True
    return False
```

```
[5]: # program a
def twoSum():
    x, y = input_num()
    if not is_zero(x, y):
        return display(Math(str(x + y)))
```

```
# input value: x = 0, y = 5 twoSum()
```

No Operation Perform

```
[8]: # program b
def twoProduct():
    x, y = input_num()
    if not is_zero(x, y):
        return display(Math(str(x*y)))
# input value: x = 33, y = 25
twoProduct()
```

825

33 is not greater than 125 value.

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```
return display(Math(str(x / y)))
else:
    return display(Math(fr'\text{{{x} is not greater than {y}}} \text{{\_\subseteq}
    value.}}'))
# input value: x = 27, y = 10
compute_quotient()
```

2.7

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[13]: def compute_quotient():
    x, y = input_num()
    if y == 0 or x == 0:
        return display(Math(r'\text{No arithmetic operation with } 0 \text{\subseteq}
    value.}'))
    elif x > y:
        return display(Math(str(x / y)))
    else:
        return display(Math(fr'\text{{x} is not greater than {y}}} \text{\subseteq}
    value.}}'))
# input value: x = 13, y = 210
compute_quotient()
```

13 is not greater than 210 value.

Author: Willie M. Bonavente