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Thread: [\[Help\] Python code wont display output.](#)

H4cker193 - September 1, 2016, 4:10 am

Hello all,

So I have been learning python and have been able to figure out the errors on my own up to this point which is cumbersome. I am following an example in my python book and have followed the code to a T. It is an older python book but should be to 3.5 standards. It is suppose to take numbers in a range and say whether or not the number is perfect, abundant or deficient. Any help would be highly appreciated.

```
import math
```

```
# Classify a range of numbers with respect to perfect, abundant or deficient
# Unless otherwise stated, variables are assumed to be of type int. Rule 4
```

```
top_num_str = input('What is the upper number for the range:')
top_num = int(top_num_str)
number = 2
```

```
while number < top_num:
    divisor = 1
    sum_of_divisors = 0
    while divisor < number:
        if number % divisor == 0:
            sum_of_divisors = sum_of_divisors + divisor
            divisor = divisor + 1
    number += 1
```

```
# Classify the number based on its divisor sum
if number == sum_of_divisors:
    print(number, 'is perfect')
if number < sum_of_divisors:
    print(number, 'is abundant')
if number > sum_of_divisors:
    print(number, 'is deficient')
number += 1
```

I added the "Import Math" at the top thinking that was the issue but it did not help.

After I enter a number it just hangs and does not classify the numbers in the range.

Update: Visual Studio finally told me what was wrong. It says on the line that contains the `if number == sum_of_divisors:`

That the colon is wrong. But in the book the colon is there. Also if I take it out, it underlines everything in red. Still does not make sense.

bytez - September 2, 2016, 2:06 pm

Is that your real syntax? If so, try making it right

Code it have to be like this

```
if(number == sum_of_divisors:)
    print(number is perfect)
```

Im still at very basics of python but that's the first problem i saw if its true :P

Also im not sure if its cause im noob to python but i find it very hard to understand your code :d

edit: Just tried running the code, it keeps going on loop, im not a math genius but are you sure thats the exact code?