Practice Assignment 05

Create a GitHub repository called “st2195_assignment_5”.

1. Commit/push the code below as a file called "foo.py".
2. Find and fix all the bugs in the code [1 point is awarded for every fixed bug]. Instructions are given in the form of comments in the code.
3. Update "foo.py" by committing and pushing the revisions.

```
def is_divisible_by_k(x, k):
    '''
    Checks whether x is divisible by k.
    '''
    assert x%k == 0

'''
Store all the integers that are multiples of 2 or 5 or 7 that are lower or equal to 1000 (excluding doubles)
'''
x = ()
for i in range(1000):
    if (is_divisible_by_k(x, 2) & is_divisible_by_k(x, 3)) | is_divisible_by_k(x, 7):
    x.append(i)

'''
Sum all the integers that are multiples of 2 or 5 or 7 that are lower or equal to 1000 (excluding doubles)
'''
sum(x)
```

Additional Notes/Hints:

- Objective: Sum all the integers that are multiples of 2 or 5 or 7 that are lower or equal to 1000 (excluding doubles)
    - Read through given Python code to have a quick understanding of how it goes about trying to meet the above objective
- Original code runs with errors
    - Copy Python code provided into Spyder IDE
    - Find the errors, make changes, rerun (repeat as necessary)
    - You can use debug mode, and/or place breakpoints in the code at locations you wish to stop and examine further.
- Now the code runs without errors
    - Re-examine objective and check through if the code is actually doing what it's supposed to do. This part may actually be the most tricky.
    - Fix any code and rerun (repeat as necessary)
- For your group presentation, highlight the process you took to debug the program