Activity: Jupyter Notebook Activity

The following task involves experimenting with pytest using the Python programming

language. The pytest question should be completed in a Jupyter

Notebook Remember to save your work to your GitHub repository.

Copy the following code into a file named wallet.py:

assert wallet.balance == 10

wallet = Wallet()

```
# code source: https://semaphoreci.com/community/tutorials/testing-python-
applications-with-pytest
# wallet.py
class InsufficientAmount(Exception):
class Wallet(object):
     def init (self, initial amount=0):
        self.balance = initial amount
    def spend cash(self, amount):
        if self.balance < amount:
            raise InsufficientAmount('Not enough available to spend
{}'.format(amount))
        self.balance -= amount
    def add cash(self, amount):
        self.balance += amount
Copy the following code into a file named test_wallet.py:
# code source: https://semaphoreci.com/community/tutorials/testing-python-
applications-with-pytest
```

```
# test wallet.py
import pytest
from wallet import Wallet, InsufficientAmount
def test default initial amount():
    wallet = Wallet()
    assert wallet.balance == 0
def test setting initial amount():
    wallet = Wallet(100)
    assert wallet.balance == 100
def test wallet add cash():
    wallet = Wallet(10)
    wallet.add cash(90)
   assert wallet.balance == 100
def test wallet spend cash():
    wallet = Wallet(20)
    wallet.spend cash(10)
```

def test wallet spend cash raises exception on insufficient amount():

```
with pytest.raises(InsufficientAmount):
    wallet.spend cash(100)
```

Run the tests using the command: \$ pytest -q test_wallet.py You should see the following output:

```
codio@tropic-france:~/workspace$ pytest -q test_wallet.py
.....
5 passed in 0.02s
_
```

Amend the code so that the tests fail.

Here is the repository for this exercise: https://github.com/hchamane/Activity_pytest

When I ran the original code; this was the result as expected:

```
(base) C:\Users\hcham\Desktop\Essex\6. SEPM\Unit 6>pytest -q test_wallet.py
.....
5 passed in 0.02s
```

Then I changed the code in wallet.py as shown below:

```
class InsufficientAmount(Exception):
    pass

class Wallet(object):
    def __init__(self, initial_amount=0):
        self.balance = initial_amount

    def spend_cash(self, amount):
        if self.balance < amount:
            raise InsufficientAmount('Not enough available to spend
{}'.format(amount))
        self.balance -= amount

    def add_cash(self, amount):
        self.balance += amount</pre>
```

And this was the output: