How to run unittest

-To run it while being able to see the print output ——————————

```
python3 -s test1.py
```

-If everything goes fine you should have this output

```
Ran 7 tests in 0.070s

OK
root@92c08c213c16:/codice#
```

-Super brief explanation on how the tests work————————————

SetUp method runs before each test to "setup the environment" (the following are examples from an old version of test script, you are going to use the latest, this is just to provide context)

```
def setUp(self):
    # populate data before each test by doing two POST
    #TODO make it read data from a csv or similar to avoid students hardcoding answers
    self.url_to_shorten_1="https://en.wikipedia.org/wiki/Docker_(software)"
    self.url_to_shorten_2="https://fastapi.tiangolo.com"
    self.id_shortened_url_1=""
    self.id_shortened_url_2=""
    def do post(url to shorten):
       endpoint = "/"
        print(url to shorten)
        url = f"{self.base_url}{endpoint}"
        response = requests.post(url, json={'value': str(url_to_shorten)})
        self.assertEqual(response.status_code, 201, f"Expected status code 201, but got {re
        self.assertIsNotNone(response.text, "Response text should not be None.")
        response_extracted=response.json()
        id_returned=response_extracted["id"]#TODO add try catch / handle in case no id key
        return id_returned
    self.id_shortened_url_1=do_post(self.url_to_shorten_1)
    print("id 1 obtained "+str(self.id_shortened_url_1))
    self.id shortened url 2=do post(self.url to shorten 2)
    print("id 2 obtained "+str(self.id_shortened_url_2))
```

tearDown method runs after each test to "clean the environment"

```
def tearDown(self): #0K
    #erase everything
    endpoint = "/"
    url = f"{self.base_url}{endpoint}"
    response = requests.delete(url)
    #self.assertEqual(response.status_companies)
```

Then there are the tests eg.

Feel free to modify the tests while developing, but when you are going to get evaluated you are going to be graded against the untouched version of the tests. So your final version should pass the tests against the vanilla version.

PS don't try to hardcode you answers because code is checked.

The only section of the tests that you can modify is the base url, in order to adapt it to the ip and port you are running it on

```
ass TestApi(unittest.TestCase):
    #with fastapi default port is 8000 with flask is 5000
base_url = "http://127.0.0.1:8000"
```

Tests are available on canvas in assignment.

Tests use request to query your API, you are going to need request, installable with: **pip install requests**