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Week_03_assignment
File name = timer.py
import timeit
def timer(number, repeat):
  def wrapper(func):
    runs = timeit.repeat(func, number=number, repeat=repeat)
    print(sum(runs) / len(runs))
  return wrapper
File_name = sunchTest.py
import requests
from timer import timer
url = 'https://httpbin.org/uuid'
def fetch(session, url):
  with session.get(url) as response:
    print(response.json()['uuid'])
@timer(1,1)
def main():
  with requests. Session() as session:
    for _ in range(100):
       print(fetch(session, url))
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File_name = multiprocessing.py
import requests
from multiprocessing.pool import Pool
from timer import timer
url = 'https://httpbin.org/uuid'
def fetch(session, url):
  with session.get(url) as response:
    print(response.json()['uuid'])
@timer(1,1)
def main():
  with Pool() as pool:
    with requests. Session() as session:
       pool.starmap(fetch, [(session, url) for _ in range(100)])
 File_name = multithreading.py
from concurrent.futures import ThreadPoolExecutor
import requests
from timer import timer
url = 'https://httpbin.org/uuid'
def fetch(session, url):
  with session.get(url) as response:
    print(response.json()['uuid'])
@timer(1,1)
def main():
  with ThreadPoolExecutor(max_workers=10) as executor:
    with requests. Session() as session:
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executor.map(fetch, [session]* 100, [url]*100) executor.shutdown(wait=True)
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File_name = asyncioTest.py
import aiohttp
import asyncio
from timer import timer
url = 'https://httpbin.org/uuid'
async def fetch(session, url):
  async with session.get(url) as response:
    json_response = await response.json()
    print(json_response['uuid'])
async def main():
  async with aiohttp.ClientSession() as session:
    task = [fetch(session, url) for _ in range(100)]
    await asyncio.gather(*task)
@timer(1,1)
def func():
  asyncio.run(main())
```