COMPTE RENDU TP03 – PROGEFF

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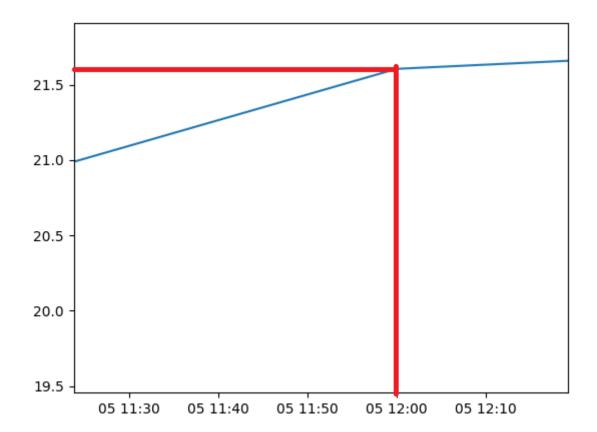
Table des matières

Introduction		2
	nitaires	
	t de l'application	
3 – Mesure du ter	mps écoulé	5
1. Identifier u	un endroit où votre programme pourrait être plus efficace	Erreur! Signet
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Introduction

1 – Les données

Le 5 octobre à midi à la station de mesure de Blagnac, la température était de 21.6°C :



2 – L'application

1. Les tests unitaires

Figure 1: setUpClass

```
Launching unittests with arguments python -m unittest test_data.MyTestCase in D:\IUT\TP\ProgEff\TP3\src

Process finished with exit code 0

Ran 8 tests in 0.548s

OK
```

Figure 2: test_stations

```
Launching unittests with arguments python -m unittest test_data.MyTestCase.test_stations in D:\IUT\TP\ProgEff\TP3\src

Ran 1 test in 0.189s

OK
```

Figure 3: test_dates

```
Launching unittests with arguments python -m unittest test_data.MyTestCase.test_dates in D:\IUT\TP\ProgEff\TP3\src

Process finished with exit code 0

Ran 1 test in 0.369s

OK
```

Figure 4 : test_get_record_temperature

```
Launching unittests with arguments python -m unittest test_data.MyTestCase.test_get_record_temperature in D:\IUT\TP\ProgEff\TP3\src

Ran 1 test in 0.206s

OK
```

Figure 5 : test_get_records_by_date

```
Launching unittests with arguments python -m unittest test_data.MyTestCase.test_get_records_by_date in D:\IUT\TP\ProgEff\TP3\src

Process finished with exit code 0

Ran 1 test in 0.323s

OK
```

Figure 6 : test_len

Launching unittests with arguments python -m unittest test_data.MyTestCase.test_len in D:\IUT\TP\ProgEff\TP3\src

Ran 1 test in 0.171s

OK

Figure 7 : test_date

Launching unittests with arguments python -m unittest test_data.MyTestCase.test_station in D:\IUT\TP\ProgEff\TP3\src

Ran 1 test in 0.175s

OK

Figure 8: test_station

Launching unittests with arguments python -m unittest test_data.MyTestCase.test_date in D:\IUT\TP\ProgEff\TP3\src

Ran 1 test in 0.183s

OK

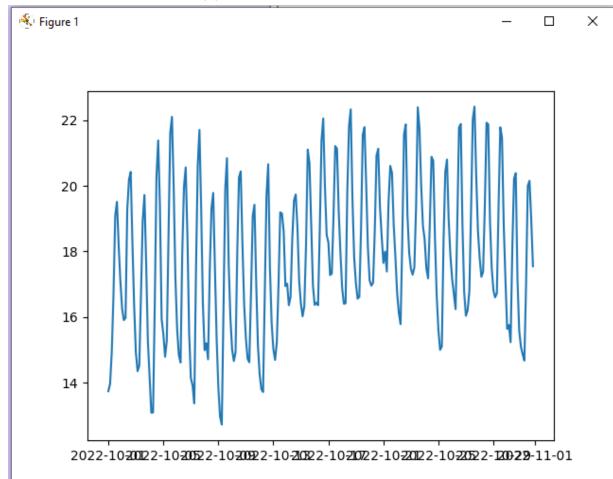
Figure 9 : test_get_pressure

Launching unittests with arguments python -m unittest test_data.MyTestCase.test_get_pressure in D:\IUT\TP\ProgEff\TP3\src

Ran 1 test in 0.208s

OK

2. Lancement de l'application



3 – Mesure du temps écoulé

```
tstart = datetime.now()
```

[...]

```
tend = datetime.now()

tTotal = tend - tstart

print("Temps ecoule pour la collecte de donnes : " + str(tTotal.total_seconds()))
```

Résultats:

```
Affichage des temperatures moyennes

(1) collecte des donnees

(2) affichage de 248 temperatures

Temps ecoule pour la collecte de donnes : 33.92189
```

4 – Analyser

1. Trier par tottime décroissant et mettre dans votre compte rendu une capture des 10 premières lignes :

ncalls	tottime •	percall	‡ cumtime	percall	A. W	filename:lineno(function)
3716325	31.53	8.485e-06	55.69	1.499e-05	_strptime.py:309(_strptime)	
1	4.656	4.656	4.873	4.873	~:0(<method '_tkinter.tkapp'="" 'mainloop'="" objects="" of="">)</method>	
3716325	4.328	1.164e-06	60.02	1.615e-05	_strptime.py:565(_strptime_datetime)	
3716327	4.21	1.133e-06	4.21	1.133e-06	~:0(<built-in _locale.setlocale="" method="">)</built-in>	
3716327	3.171	8.531e-07	4.234	1.139e-06	locale.py:396(normalize)	
3718070	2.669	7.179e-07	2.669	7.179e-07	~:0(<method 'match'="" 're.pattern'="" objects="" of="">)</method>	
3716325	2.317	6.235e-07	62.34	1.678e-05	~:0(<built-in method="" strptime="">)</built-in>	
3716327	2.205	5.932e-07	12.39	3.333e-06	locale.py:587(getlocale)	
3716325	2.192	5.898e-07	66.39	1.786e-05	data.py:37(date)	
3716354	2.15	5.784e-07	2.15	5.784e-07	~:0(<method 'groupdict'="" 're.match'="" objects="" of="">)</method>	

2. Identifier un endroit où votre programme pourrait être plus efficace

3716325	2.192	5.898e-07	66.39	1.786e-05	data.py:37(date)
3731250	1.865	4.998e-07	1.865	4.998e-07	data.py:31(getitem)