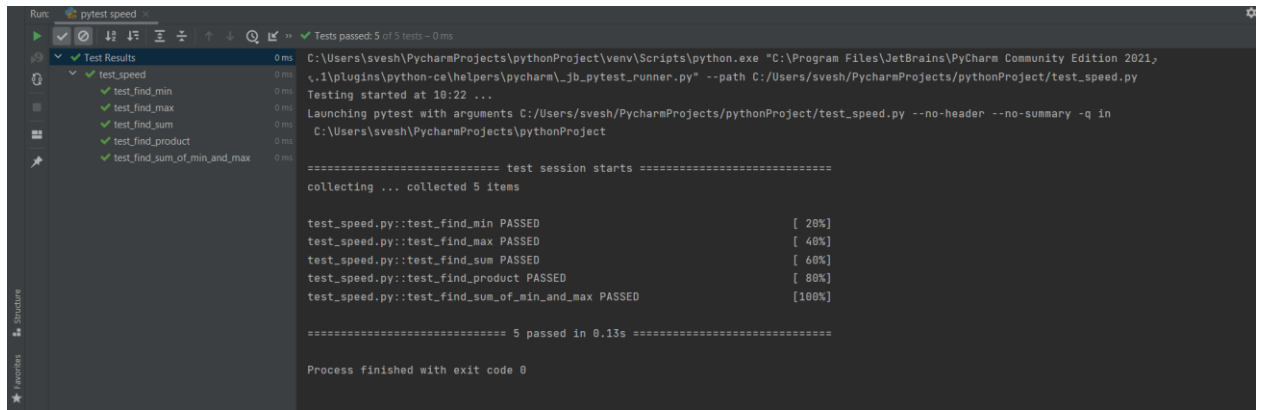


Отчёт по скорости программы

Небольшое введение: все «файлы» содержат разное количество чисел – от 10 до 100 000, поэтому разный объём данных, т.е. разное время выполнения программы. Собственно, на скринах это отчётливо видно слева, где время тестов в микросекундах/секундах/минутах.

Тест 1 – file_1



```
Run: pytest speed
Tests passed: 5 of 5 tests - 0 ms

Test Results
test_speed 0 ms
test_find_min 0 ms
test_find_max 0 ms
test_find_sum 0 ms
test_find_product 0 ms
test_find_sum_of_min_and_max 0 ms

C:\Users\svesh\PycharmProjects\pythonProject\venv\Scripts\python.exe "C:\Program Files\JetBrains\PyCharm Community Edition 2021.
\plugins\python-ce\helpers\pycharm\jb_pytest_runner.py" --path C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py
Testing started at 10:22 ...
Launching pytest with arguments C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py --no-header --no-summary -q in
C:\Users\svesh\PycharmProjects\pythonProject

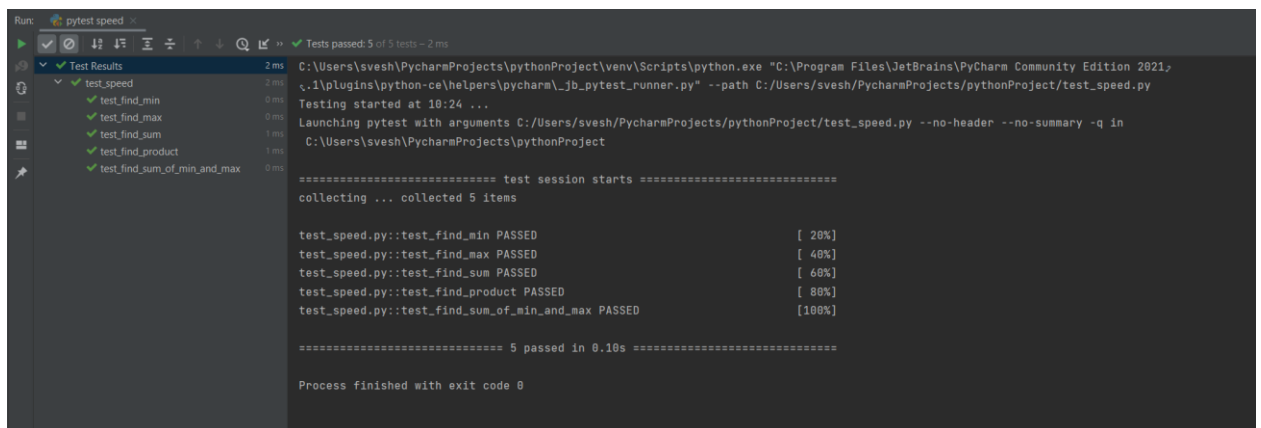
===== test session starts =====
collecting ... collected 5 items

test_speed.py::test_find_min PASSED [ 20%]
test_speed.py::test_find_max PASSED [ 40%]
test_speed.py::test_find_sum PASSED [ 60%]
test_speed.py::test_find_product PASSED [ 80%]
test_speed.py::test_find_sum_of_min_and_max PASSED [100%]

===== 5 passed in 0.13s =====

Process finished with exit code 0
```

Тест 2 – file_2



```
Run: pytest speed
Tests passed: 5 of 5 tests - 2 ms

Test Results
test_speed 2 ms
test_find_min 0 ms
test_find_max 0 ms
test_find_sum 1 ms
test_find_product 1 ms
test_find_sum_of_min_and_max 0 ms

C:\Users\svesh\PycharmProjects\pythonProject\venv\Scripts\python.exe "C:\Program Files\JetBrains\PyCharm Community Edition 2021.
\plugins\python-ce\helpers\pycharm\jb_pytest_runner.py" --path C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py
Testing started at 10:24 ...
Launching pytest with arguments C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py --no-header --no-summary -q in
C:\Users\svesh\PycharmProjects\pythonProject

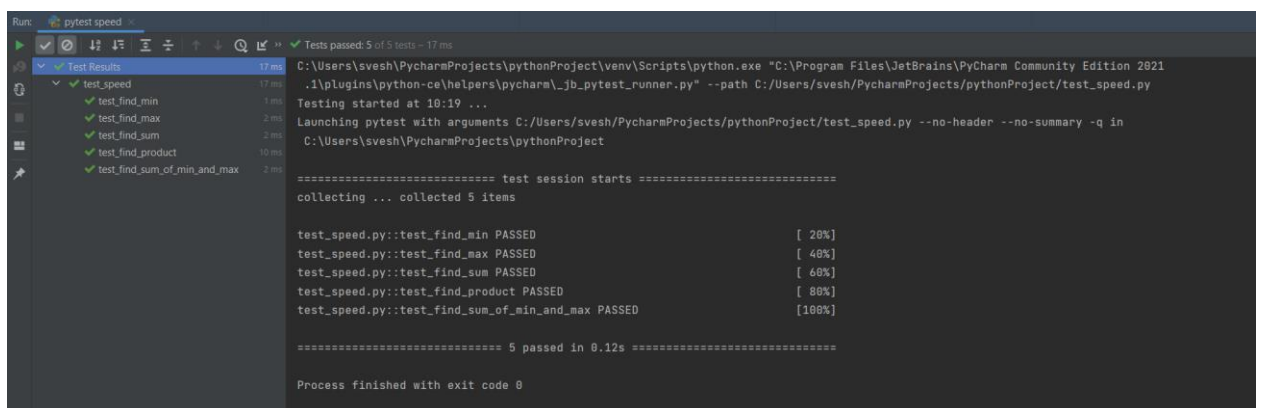
===== test session starts =====
collecting ... collected 5 items

test_speed.py::test_find_min PASSED [ 20%]
test_speed.py::test_find_max PASSED [ 40%]
test_speed.py::test_find_sum PASSED [ 60%]
test_speed.py::test_find_product PASSED [ 80%]
test_speed.py::test_find_sum_of_min_and_max PASSED [100%]

===== 5 passed in 0.10s =====

Process finished with exit code 0
```

Тест 3 – file_3



```
Run: pytest speed
Tests passed: 5 of 5 tests - 17 ms

Test Results
test_speed 17 ms
test_find_min 1 ms
test_find_max 2 ms
test_find_sum 2 ms
test_find_product 10 ms
test_find_sum_of_min_and_max 2 ms

C:\Users\svesh\PycharmProjects\pythonProject\venv\Scripts\python.exe "C:\Program Files\JetBrains\PyCharm Community Edition 2021.
\plugins\python-ce\helpers\pycharm\jb_pytest_runner.py" --path C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py
Testing started at 10:19 ...
Launching pytest with arguments C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py --no-header --no-summary -q in
C:\Users\svesh\PycharmProjects\pythonProject

===== test session starts =====
collecting ... collected 5 items

test_speed.py::test_find_min PASSED [ 20%]
test_speed.py::test_find_max PASSED [ 40%]
test_speed.py::test_find_sum PASSED [ 60%]
test_speed.py::test_find_product PASSED [ 80%]
test_speed.py::test_find_sum_of_min_and_max PASSED [100%]

===== 5 passed in 0.12s =====

Process finished with exit code 0
```

Тест 4 – file_4

```
Run: pytest speed - Tests passed: 5 of 5 tests - 1 sec 266 ms
Test Results 1 sec 266 ms
test_speed 1 sec 266 ms
test_find_min 16 ms
test_find_max 14 ms
test_find_sum 27 ms
test_find_product 1 sec 180 ms
test_find_sum_of_min_and_max 19 ms

C:\Users\svesh\PycharmProjects\pythonProject\venv\Scripts\python.exe "C:\Program Files\JetBrains\PyCharm Community Edition 2021,
\plugins\python-ce\helpers\pycharm\jb_pytest_runner.py" --path C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py
Testing started at 10:29 ...
Launching pytest with arguments C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py --no-header --no-summary -q in
C:\Users\svesh\PycharmProjects\pythonProject

===== test session starts =====
collecting ... collected 5 items

test_speed.py::test_find_min PASSED [ 20%]
test_speed.py::test_find_max PASSED [ 40%]
test_speed.py::test_find_sum PASSED [ 60%]
test_speed.py::test_find_product PASSED [ 80%]
test_speed.py::test_find_sum_of_min_and_max PASSED [100%]

===== 5 passed in 1.39s =====

Process finished with exit code 0
```

Тест 5– file_5

```
Run: pytest speed - Tests passed: 5 of 5 tests - 2 min 3 sec
Test Results 2 min 3 sec
test_speed 2 min 3 sec
test_find_min 190 ms
test_find_max 220 ms
test_find_sum 510 ms
test_find_product 2 min 2 sec
test_find_sum_of_min_and_max 157 ms

C:\Users\svesh\PycharmProjects\pythonProject\venv\Scripts\python.exe "C:\Program Files\JetBrains\PyCharm Community Edition 2021,
\plugins\python-ce\helpers\pycharm\jb_pytest_runner.py" --path C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py
Testing started at 10:28 ...
Launching pytest with arguments C:/Users/svesh/PycharmProjects/pythonProject/test_speed.py --no-header --no-summary -q in
C:\Users\svesh\PycharmProjects\pythonProject

===== test session starts =====
collecting ... collected 5 items

test_speed.py::test_find_min PASSED [ 20%]
test_speed.py::test_find_max PASSED [ 40%]
test_speed.py::test_find_sum PASSED [ 60%]
test_speed.py::test_find_product PASSED [ 80%]
test_speed.py::test_find_sum_of_min_and_max PASSED [100%]

===== 5 passed in 124.67s (0:02:04) =====

Process finished with exit code 0
```

Легко заметить, что самая показательная для скорости это функция поиска произведения чисел (неудивительно...)