Pytest Documentation

1. Need to create a new directory in under dir all files are present.
2. Pytest file name start with test_ (test_demo.py)
3. Test method start with test(def test_program1())
4. -v verbose provide more information
5. -s use for print
6. -k ->use for method name execution(pytest -k creditcard -v -s)
7. -m mark use for tag test & sanity test (pytest -m samity -v -s)
8. @pytest.mark.skip -> skip the test method
9. @pytest.mark.xfail -> not pass and not fail
10. @pytest.fixture() -> use in selenium for open/close browser
11. Report -> pytest --html=report.html (pip install pytest-html)
12. -rA -> complete summary

Program1 test_demo.py

```python
import pytest


def test_first_program():
    msg="Hi"
    assert msg == "Hi"
```

Run-> pytest test_demo.py -v -s

Program2 Skip

```python
import pytest


@pytest.mark.skip
def test_add():
    a=4
    assert a+2 ==6


def test_first_program():
    msg="Hi"
    assert msg == "Hi"
```

Run

```
vvdn@6863--5GDC--MCP7:~/Documents/Practice/PyTest/test_1$ pytest -v -s
================================ test session starts ================================
platform linux2 -- Python 2.7.18, pytest-4.6.9, py-1.8.1, pluggy-0.13.0 -- /usr/bin/python2
cachedir: .pytest_cache
rootdir: /home/vvdn/Documents/Practice/PyTest/test_1
collected 2 items

test_practice.py::test_add SKIPPED
test_practice.py::test_first_program PASSED

========================= 1 passed, 1 skipped in 0.01 seconds =========================
vvdn@6863--5GDC--MCP7:~/Documents/Practice/PyTest/test_1$
```

Program3 pytest -k -sanity -v -s

```
import pytest


@pytest.mark.skip
def test_add():
    a=4
    assert a+2 ==6


def test_first_program():
    msg="Hi"
    assert msg == "Hi"


@pytest.mark.sanity
def test_conf():
    print("Hello")
```

Run -> pytest -k sanity -v -s

```
=========================================== test session starts ===========================================
platform linux2 -- Python 2.7.18, pytest-4.6.9, py-1.8.1, pluggy-0.13.0 -- /usr/bin/python2
cachedir: .pytest_cache
rootdir: /home/vvdn/Documents/Practice/PyTest/test_1
collected 3 items / 2 deselected / 1 selected

test_practice.py::test_conf Hello
PASSED

============================================= warnings summary =============================================
/usr/lib/python2.7/dist-packages/_pytest/mark/structures.py:335
  /usr/lib/python2.7/dist-packages/_pytest/mark/structures.py:335: PytestUnknownMarkWarning: Unknown pytest.mark.sanity - is this a typo?  You c
an register custom marks to avoid this warning - for details, see https://docs.pytest.org/en/latest/mark.html
    PytestUnknownMarkWarning,

-- Docs: https://docs.pytest.org/en/latest/warnings.html
=================================== 1 passed, 2 deselected, 1 warnings in 0.01 seconds ===================================
vvdn@6863--5GDC--MCP7:~/Documents/Practice/PyTest/test_1$
```

Program4 Xfail

```
import pytest


# @pytest.mark.skip
# def test_add():
#       a=4
#       assert a+2 ==6


# def test_first_program():
#       msg="Hi"
#       assert msg == "Hi"


# @pytest.mark.sanity
# def test_conf():
```

```
    # print("Hello")


@pytest.mark.conf
def test_second_program():
    msg="Bye"
    assert msg == "hi"


@pytest.mark.xfail
def test_third_program():
    msg="Hello"
    assert msg == "Hello"
```

Run

```
vvdn@6863--5GDC--MCP7:~/Documents/Practice/PyTest/test_1$ pytest -v -s
================================================= test session starts =================================================
platform linux2 -- Python 2.7.18, pytest-4.6.9, py-1.8.1, pluggy-0.13.0 -- /usr/bin/python2
cachedir: .pytest_cache
rootdir: /home/vvdn/Documents/Practice/PyTest/test_1
collected 2 items

test_practice.py::test_second_program FAILED
test_practice.py::test_third_program XPASS

===================================================== FAILURES =====================================================
_____ test_second_program _____

    @pytest.mark.conf
    def test_second_program():
        msg="Bye"
>       assert msg == "hi"
E       AssertionError: assert 'Bye' == 'hi'
E         - Bye
E         + hi

test_practice.py:19: AssertionError
================================================= warnings summary =================================================
/usr/lib/python2.7/dist-packages/_pytest/mark/structures.py:335
  /usr/lib/python2.7/dist-packages/_pytest/mark/structures.py:335: PytestUnknownMarkWarning: Unknown pytest.mark.conf - is this a typo?  You can
 register custom marks to avoid this warning - for details, see https://docs.pytest.org/en/latest/mark.html
    PytestUnknownMarkWarning,

-- Docs: https://docs.pytest.org/en/latest/warnings.html
========================================= 1 failed, 1 xpassed, 1 warnings in 0.03 seconds =========================================
vvdn@6863--5GDC--MCP7:~/Documents/Practice/PyTest/test_1$
```

Program5 Fixture

```
import pytest

@pytest.fixture()
def set():
    print("Execute First")
    yield
    print("Execute Last")



def test_fixture_demo(set):
    print("Execute Second")
```

```
vvdn@6863--5GDC--MCP7:~/Documents/Practice/PyTest/test_1$ pytest test_practice_1.py -v -s
=============================================== test session starts ===============================================
platform linux2 -- Python 2.7.18, pytest-4.6.9, py-1.8.1, pluggy-0.13.0 -- /usr/bin/python2
cachedir: .pytest_cache
rootdir: /home/vvdn/Documents/Practice/PyTest/test_1
collected 1 item

test_practice_1.py::test_fixture_demo Execute First
Execute Second
PASSEDExecute Last


================================================ 1 passed in 0.01 seconds ================================================
vvdn@6863--5GDC--MCP7:~/Documents/Practice/PyTest/test_1$
```