

Run `equivalence.py` in the **Codio workspace** - Testing with Python - which is an implementation of equivalence partitioning. This test partitions integers `[-3,5]` into equivalence classes based on  $\lambda x, y: (x-y)\%4 == 0$ .

In the output, you should be able to see how a set of objects to be partitioned are considered, and a function evaluates if the two objects are equivalent before printing the result.

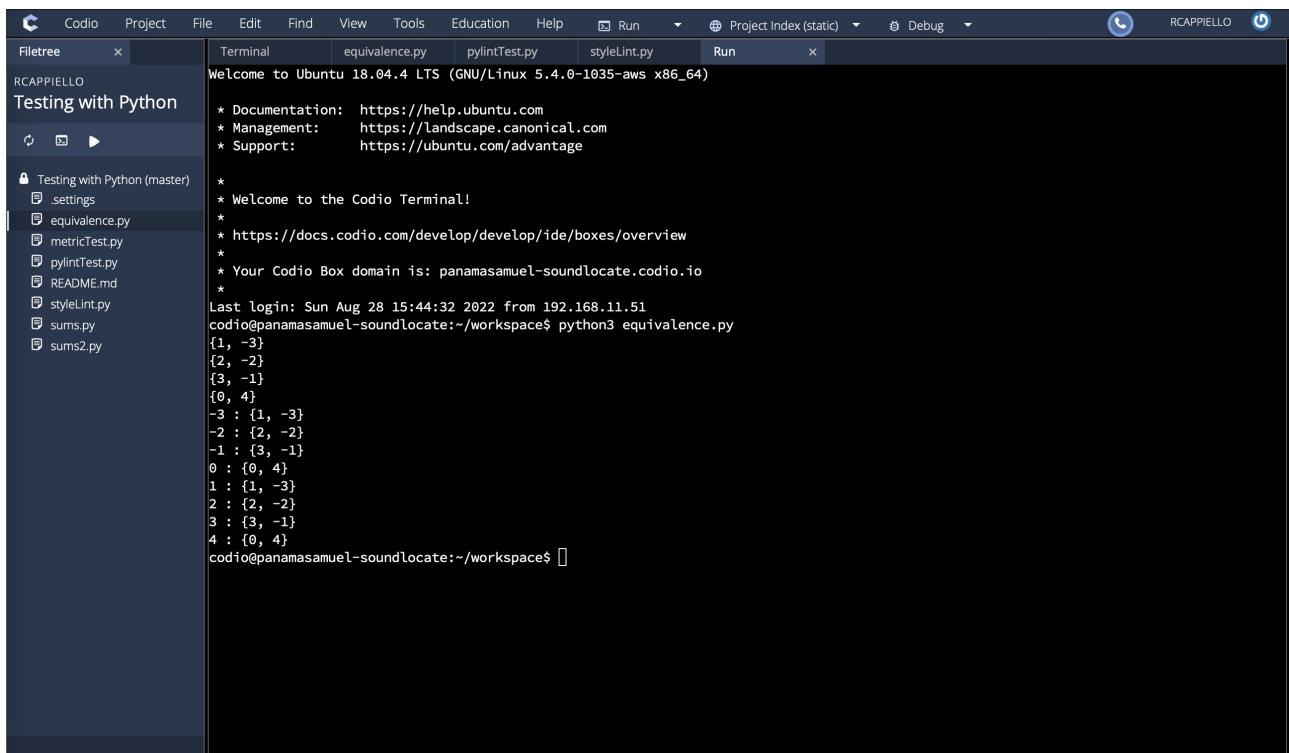
`test_equivalence_partition()` produces the following output:

```
set([1, -3]) set([2, -2]) set([3, -1]) set([0, 4]) 0 : set([0, 4]) 1 : set([1, -3]) 2 : set([2, -2])
3 : set([3, -1]) 4 : set([0, 4]) -2 : set([2, -2]) -3 : set([1, -3]) -1 : set([3, -1])
```

You should carry out further investigations on the code and experiment with it.

**Remember to record your results, ideas and team discussions in your e-portfolio.**

I run the code in the Codio workspace and I got the following output:



The screenshot shows a Codio workspace interface. On the left, a file explorer lists files: `.settings`, `equivalence.py`, `metricTest.py`, `pylintTest.py`, `README.md`, `styleLint.py`, `sums.py`, and `sums2.py`. The main terminal window displays the following output:

```
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 5.4.0-1035-aws x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

*
* Welcome to the Codio Terminal!
*
* https://docs.codio.com/develop/develop/ide/boxes/overview
*
* Your Codio Box domain is: panamasamuel-soundlocate.codio.io
*
Last login: Sun Aug 28 15:44:32 2022 from 192.168.11.51
codio@panamasamuel-soundlocate:~/workspace$ python3 equivalence.py
{1, -3}
{2, -2}
{3, -1}
{0, 4}
-3 : {1, -3}
-2 : {2, -2}
-1 : {3, -1}
0 : {0, 4}
1 : {1, -3}
2 : {2, -2}
3 : {3, -1}
4 : {0, 4}
codio@panamasamuel-soundlocate:~/workspace$
```