



File Edit Selection View Go Run Terminal Help hello\_world.py - lec25\_py\_intro - Visual Studio Code

RUN AND DEBUG No Confi

hello\_world.py x test\_he

hello\_world.py > ...

```
1 my_list = ["welcome", "to", "python"]
2
3 pass
```

Debug controls (similar to IntelliJ)

Use the dropdown menu by the play button to select debugging (can also use Run menu)

Variables appear here

We only need a "pass" statement at the end of the file when we want to interact with variables after the file runs. Notice that we put a breakpoint at this line. (We need this because we cannot run the last line of a program in a debugger without exiting the debugger, so with this statement we are making sure all lines have run up to this point)

OUTPUT **DEBUG CONSOLE** TERMINAL JUPYTER Filter (e.g. text, lexclude)

Two ways to use the debugger:

- Place breakpoints and debug like you did for Java
- Place a breakpoint at a "pass" statement at the end of the file to interact with variables using the **debug console**

Can type interactive commands here, for example:

```
my_list[0] (will print "welcome")
my_list = ["thanks"] (will change value of variable in program)
```

Ln 3, Col 1 Spaces: 4 UTF-8 CRLF Python 3.9.13 ('cs200-env': conda)

TESTING

Filter (e.g. text, !exclude, @tag)

> lec25\_py\_intro

This shows all of the detected test files and test functions in the current workspace. Use the run/run and debug buttons to run tests

Testing pane

hello\_world.py test\_hello\_world.py X

test\_hello\_world.py > test\_example

```
1 import pytest
2
3 def test_example():
4     assert 1 == 1
```

Remember that all test files need to start with test\_

import pytest at the top of any testing file

Use assert followed by a boolean expression to write tests

All test functions should start with test\_