**Section 10: Errors and Exception Handling**

**01.03.**

**80. Errors and Exception Handling**

try: this block is for code that may lead to an error

except: the block that will be executed if there is an error

there may be multiple except blocks with or without specifics errors

just the first exception that matches will be considered

else: is executed if there isn’t an error

finally: is executed regardless there is an error or not

**02.03.**

**84. Pylint Overview**

In Python are multiple testing tools like:

pylint that finds possible issues

unittest which is a built-in library used to test the code

Using %%writefile in jupyter, we can export the cell code into a module

We can use pylint as: pylint module.py -r y

There are other linters like Flake8 that also have plugins

For these linters we can use configuration files for the style

These 2 linters found both logical and stylistic problems

**85. Running tests with the Unittest Library**

There are built-in libraries like unittest

To test functions with this package we need to create a class that extends unittest.TestCase

In this class we can define functions and use for example self.assertEqual

In this way we can check if the output of a function is the one expected

After defining all these testing functions, we’ll execute unittest.main()

Is important to have all the tests in a different module

Also doctest is a built-in package that allows to run code that is embedded in docstrings

This embedded code is represented by console commands and output