

Introduction

Secure Software Development

Remember to save your work to your GitHub Repository

Unit Topic: Linters

These are the Python programs that will support your practical work this Unit and can be seen in the filetree:

- metricTest.py
- pylintTest.py
- styleLint.py
- sums.py
- sums2.py

Run your code using `python3 [filename].py` (or use the **rocket icon**)

Testing with Python

Exploring Linters to Support Testing in Python: Question 1

Run `styleLint.py`.

- What happens when the code is run?
- Can you modify this code for a more favourable outcome?
- What amendments have you made to the code?

Testing with Python

Exploring Linters to Support Testing in Python: Question 2

Ensure *pylint* is in your virtual box -

```
pip install pylint
```

Run *pylint* on `pylintTest.py`

- Review each of the code errors returned.
- Can you correct each of the errors identified by *pylint*? Before correcting the code errors, save the `pylintTest.py` file with a new name (it will be needed again in the next question).

Testing with Python

Exploring Linters to Support Testing in Python: Question 3

Ensure *flake8* is in your virtual box -

```
pip install flake8
```

Run *flake8* on `pylintTest.py`

- Review the errors returned. In what way does this error message differ from the error message returned by *pylint*?

Run *flake8* on `metricTest.py`.

- Can you correct each of the errors returned by *flake8*?
- What amendments have you made to the code?

Testing with Python

Exploring Linters to Support Testing in Python: Question 4

Ensure *mccabe* is in your virtual box -

```
pip install mccabe
```

Run *mccabe* on `sums.py`. What is the result?

Run *mccabe* on `sums2.py`. What is the result?

- What are the contributors to the cyclomatic complexity in each piece of code?