Codio Activity: Exploring Python tools and features

Course: MSc Computer Science

Module: Secure Software Development (Computer Science)

Assignment: ePortfolio

Date: Saturday 30th October 2021

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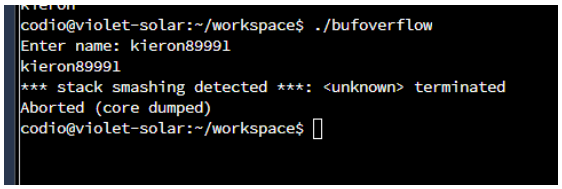
Part 1:

What happens?:

The Codio window outputs the following error message:

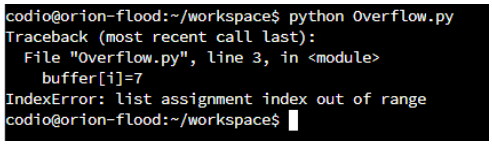


What does the output message mean?:

The Stack Smashing detected error message is output as a result of protective mechanisms implemented by the C compiler to prevent common errors, including Buffer Overflows.

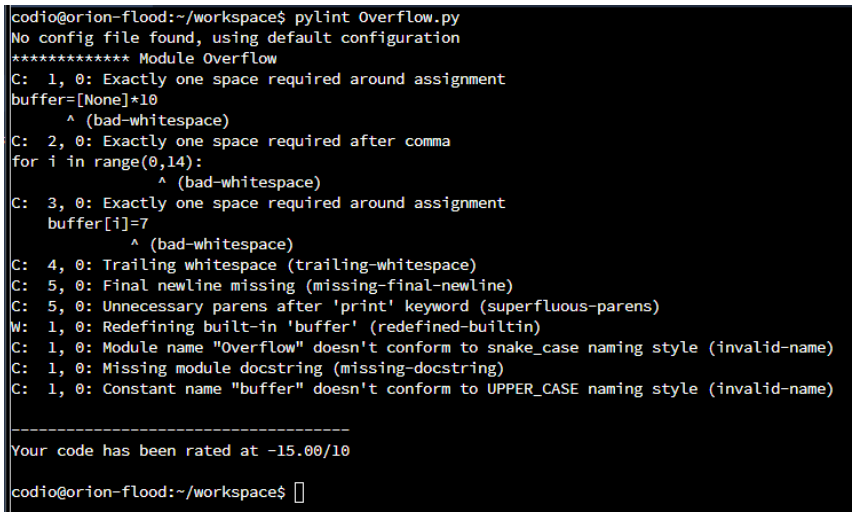
Part 2:

What is the result?:



As the index of 11 does not exist, Python throws an IndexError.

What is the Pylint result/how to fix?:



The above output is generated by running “pylint Overflow.py”.

This can be fixed by correcting the code as shown below:

```
buffer = [None]*10

for i in range(0, 14):

    buffer[i] = 7

print(buffer)
```