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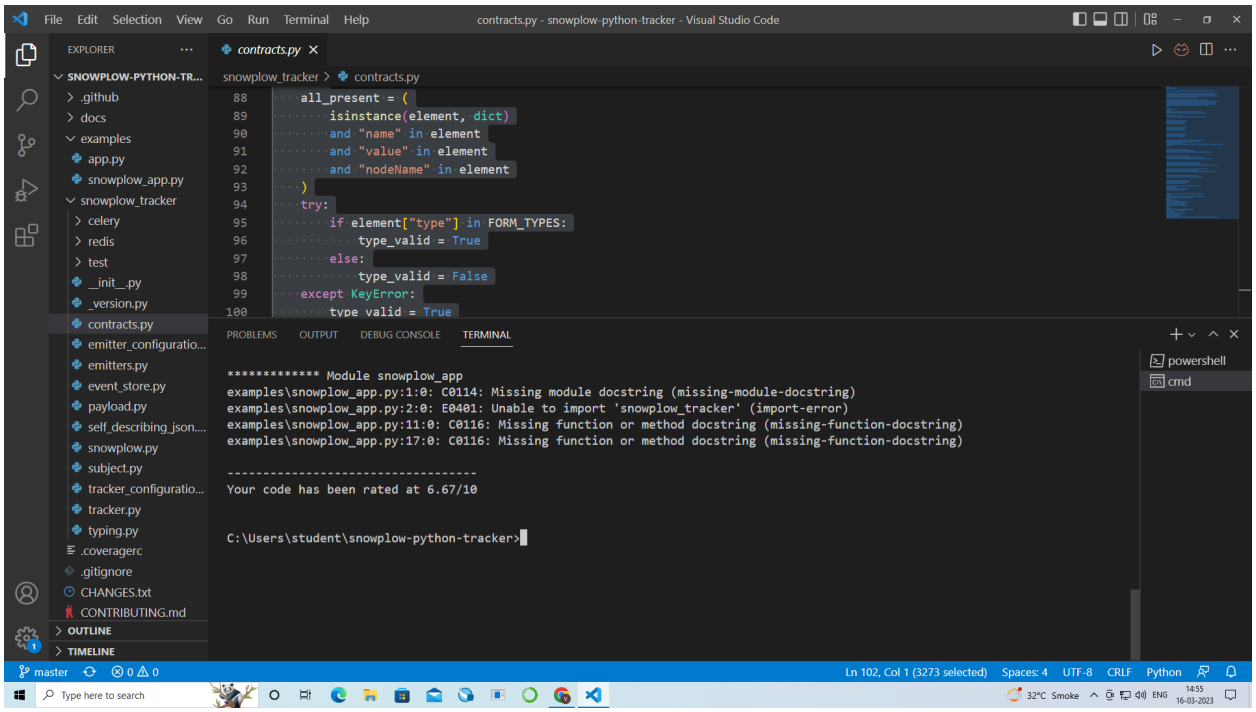
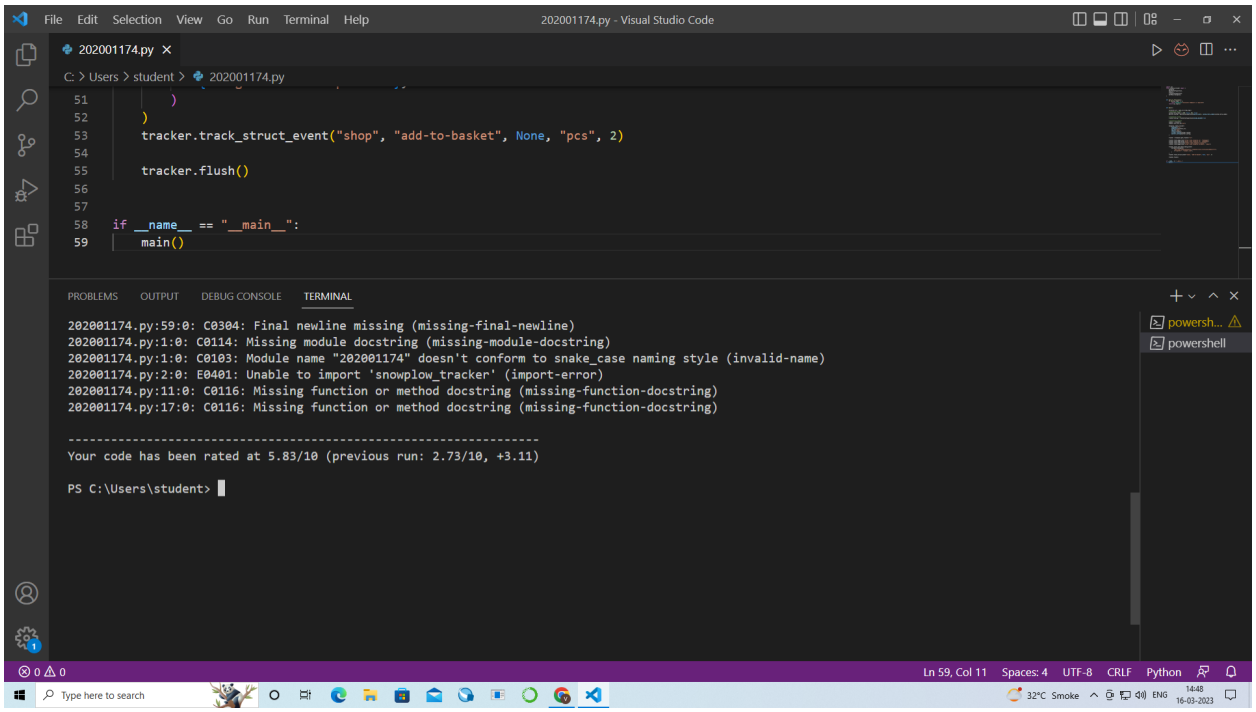
Tool :- I have used pylint for this assignment.

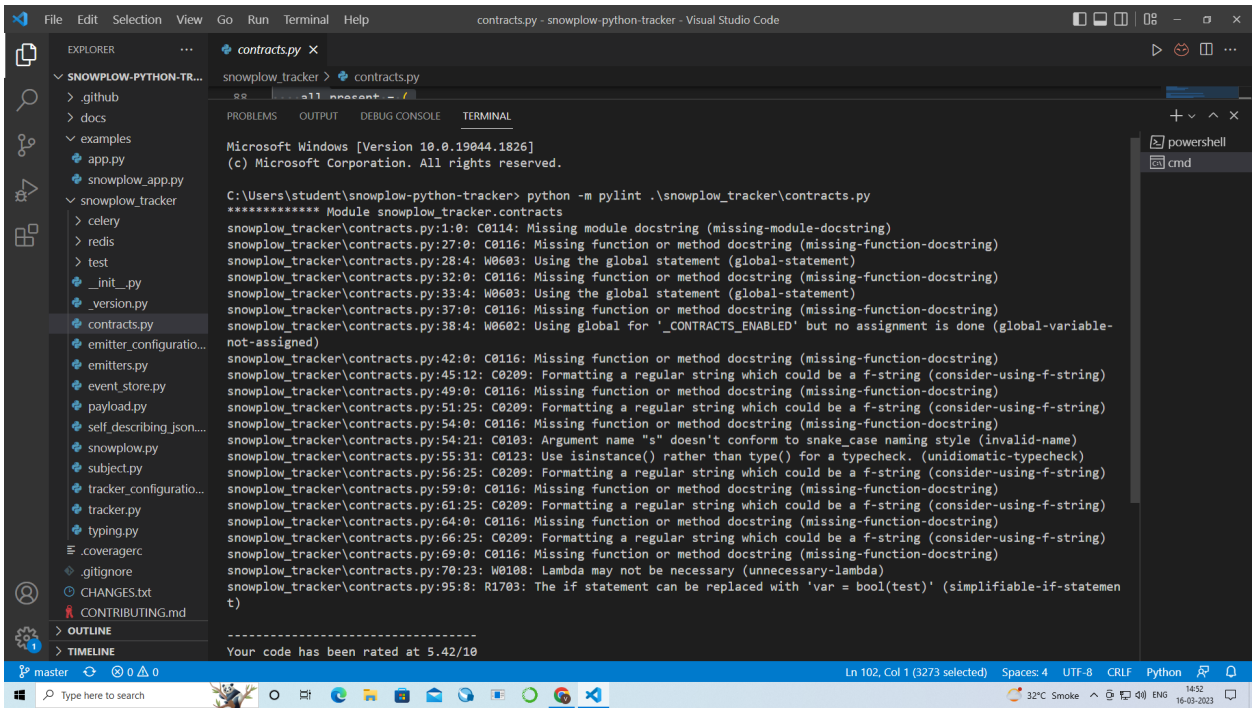
1. https://github.com/snowplow/snowplow-python-tracker/blob/master/examples/app.py



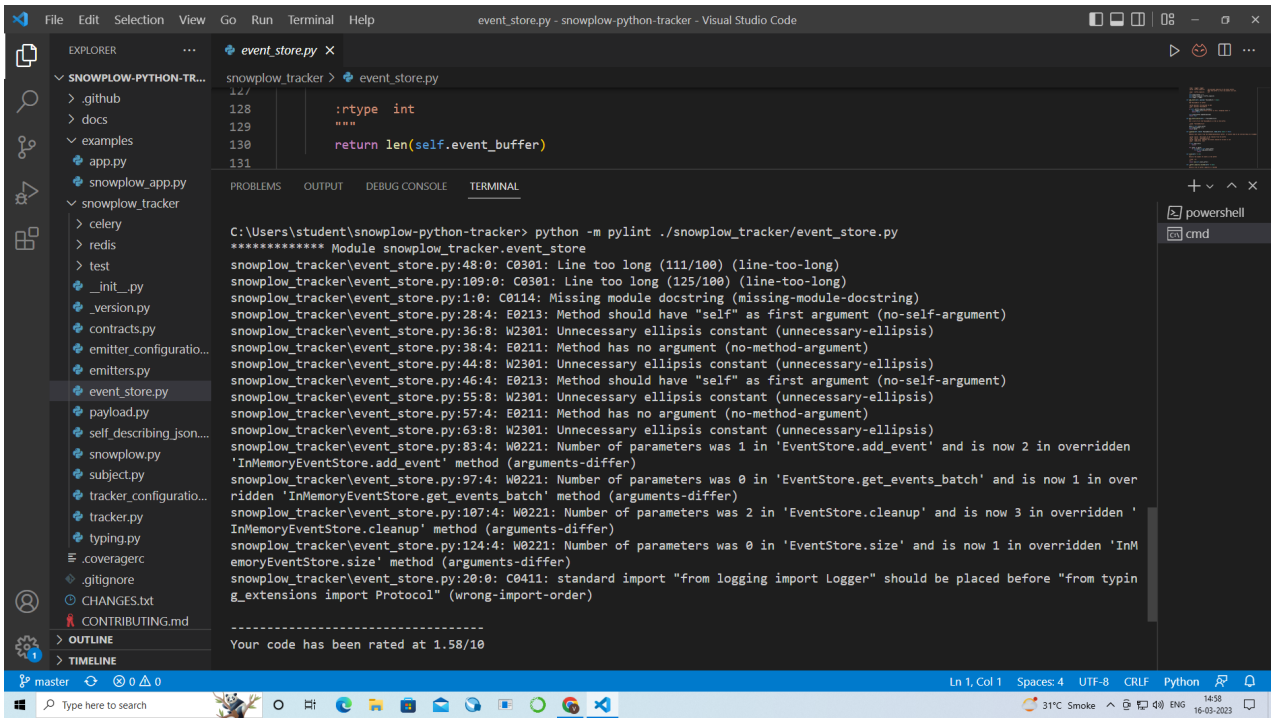
2. https://github.com/snowplow/snowplow-python-tracker/blob/master/examples/snowplow_app.py



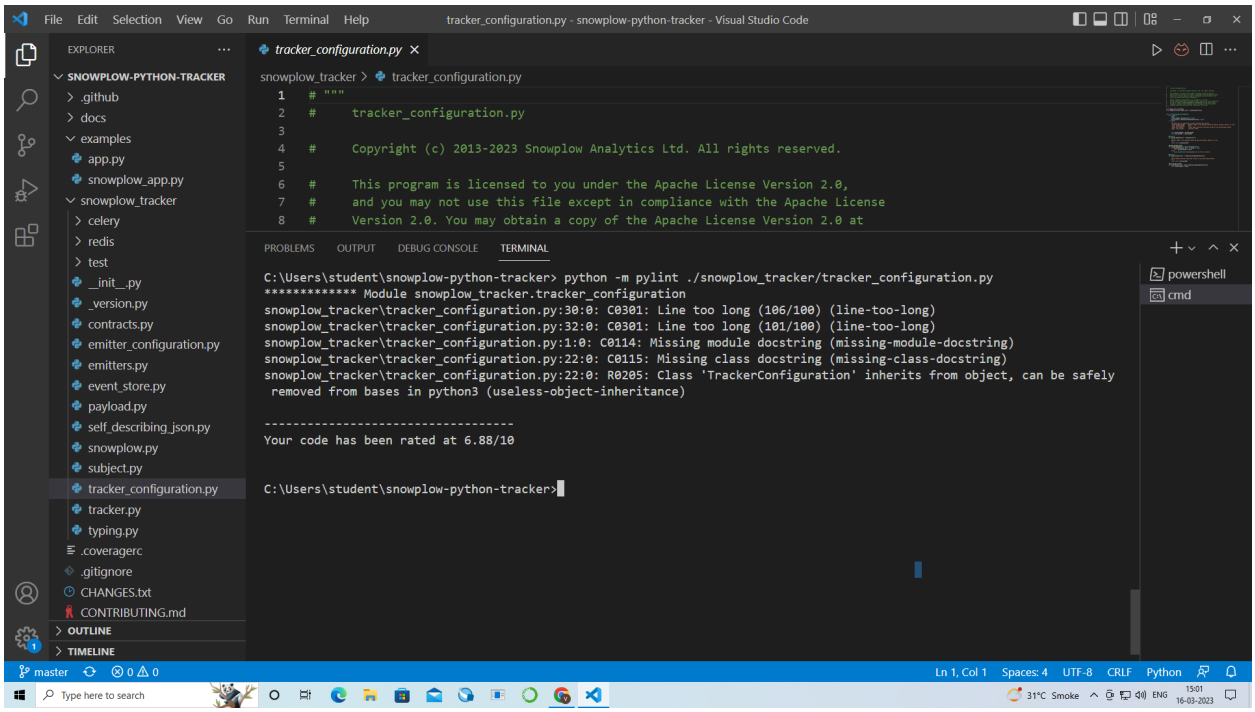
3. https://github.com/snowplow/snowplow-python-tracker/blob/master/snowplow_tracker/contracts.py



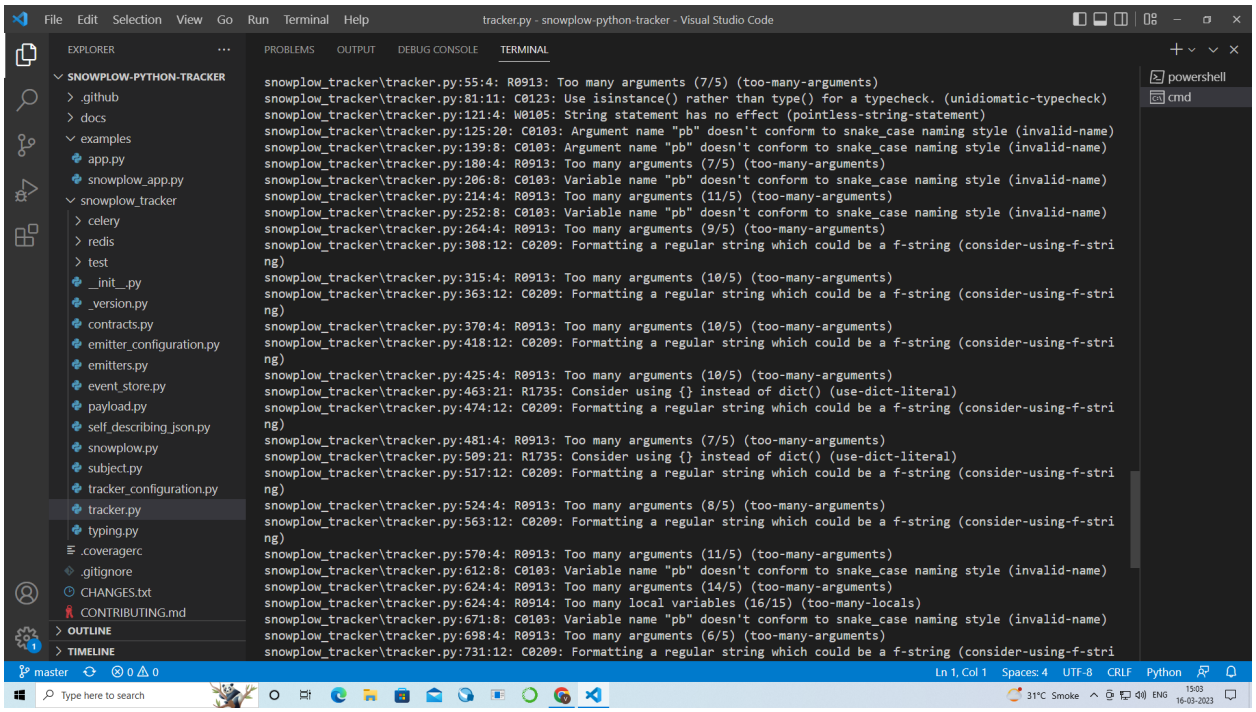
4. https://github.com/snowplow/snowplow-python-tracker/blob/master/snowplow_tracker/event_store.py



5. https://github.com/snowplow/snowplow-python-tracker/blob/master/snowplow_tracker/tracker_configuration.py



6. https://github.com/snowplow/snowplow-python-tracker/blob/master/snowplow_tracker/typing.py



Error Analysis:

- C0114: Missing module

This error can occur in Python code when an import statement is used to import a module that is not installed on the system.

- C0116: Missing function or method

This error occurs when there is no docstring for a function or method.

- W0603: Using the global

This warning is generated when a global variable is used within a function or method.

- C0209: Formatting a regular string which could be an f-string

This error occurs when a regular string is being formatted using string formatting syntax instead of using an f-string.

- R1703: The if statement can be replaced with 'var = bool(test)'

This warning is generated when an if statement is being used to convert a value to a boolean when it can be done more efficiently using the bool() function.

- W0108: Lambda may not be necessary

This warning is generated when a lambda function is being used but can be replaced with a regular function for readability and maintainability.

- W0402: Deprecated module

This warning is generated when an imported module is deprecated and will be removed in future versions of Python.

- C0411: standard import

This warning is generated when a module is being imported in a way that does not follow the standard import convention.

- W0611: Unused error imported

This warning is generated when an error type is being imported but is not used in the code.

- E0213: Method should have "self" as the first argument

This error is generated when a method does not have "self" as the first parameter. This is a convention in Python for instance methods.

- E0211: Method has no argument

This error is generated when a method is defined without any arguments. Instance methods require "self" as an argument.

- W2301: Unnecessary ellipsis constant

This warning is generated when the ellipsis constant (...) is used unnecessarily.

- C0301: Line too long

This error is generated when a line of code exceeds the maximum line length allowed by pylint.

- W0105: String statement has no effect

This warning is generated when a string statement has no effect on the code and can be removed.

- R0913: Too many arguments

This error is generated when a function or method has too many arguments, which can make the code hard to read and maintain.

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