

# # Sub-Challenge

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## # Sub- Challenge

### # Sub Challenge - Documentation and Testing

By this point you should have a working, Python Application. What you probably haven't done is written any tests or added any comments to explain what your code does! Let's see how we can use Generative AI to help with this.

#### Task 1

##### Test Generation:

To use the Test Generation feature, highlight a function and click Generate Test. This will generate a test specifically for that function - give it a try, run it and see what happens.

Also explore documentation and explore features of GitHub Copilot Chat.

#### Task 2

Use GitHub Copilot to create a method/library for which can take the CSV file from the Task1 and generate a synthetic data based on the original CSV data patterns and structure (much larger data set)

#### Task 3

##### Automated Test Application

Using Github Copilot, develop an application which can run some end to end test.