This document will instruct and direct you to complete all of the evidence you will need to meet the Merit level criteria for the following standard.

| **Number** | **Version** | **Title** | **Credits** | **Assessment** |
| --- | --- | --- | --- | --- |
| AS91896 | 1 | Use advanced programming techniques to develop a computer program | 6 | Internal |
| **Achievement Level Statement** | | | | |
| Use advanced programming techniques to develop an informed computer program. | | | | |

Please enter the requested evidence in the areas provided.

**PLEASE NOTE : COMPLETION OF THIS WORKSHEET DOES NOT GUARANTEE SUCCESS AT THIS LEVEL. IT ONLY ACTS TO PROVIDE A FRAMEWORK FOR WHICH A JUDGEMENT CAN BE MADE.**

# 2.1

Evidenced within code

# 2.2 - Conventions Used

Each programming language has a set of conventions that should be followed. For Python the current conventions are documented in the [PEP 8](https://www.python.org/dev/peps/pep-0008/) style guide and contain guidance such as:

* Variable and function names should all be lower case with words separated by underscores.
* Lines of code should not be longer than 79 characters
* Lines of comments should not be longer than 72 characters
* Functions should always contain a docstring

Other languages such as [C#](https://docs.godotengine.org/en/3.1/getting_started/scripting/c_sharp/c_sharp_style_guide.html) and [JavaScript](https://www.w3schools.com/js/js_conventions.asp) also have their own style guides.

In the table below identify the conventions you have followed and provide evidence that they have been applied.

|  |  |
| --- | --- |
| Selected Programming Language | Style Guide Used |
|  |  |
| Evidence that Conventions have been applied | |
| *e.g.1 - A screen shot of the output from an online checking tool like* [**http://pep8online.com**](http://pep8online.com/)*and / or* [**https://www.pythonchecker.com**](https://www.pythonchecker.com/)  *e.g. 2 - A description of all of the conventions you have taken with examples.* | |
|  | |

**NOTE: This section is intended to demonstrate that you are aware of and have adhered to the conventions for your selected language. A screen shot alone does not demonstrate that you have been successful throughout your entire project so make sure that you thoroughly check each aspect of your work.**

**2.3 Testing and debugging the program effectively to ensure that it works on a sample of both expected cases and relevant boundary cases.**

Retest your new code for **both expected and boundary inputs**. Boundary tests are the maximum and minimum values your program should allow for each user input. This means that for each input there is likely to be 2 boundaries that can be tested.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test No. | Test (include test data if necessary) | Expected Result | Actual Result | Test Result |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 |  |  |  |  |
| 12 |  |  |  |  |
| Etc. | Please add more tests if needed |  |  |  |

# Your Code

Please copy the code from the second version of your program into the space below

|  |
| --- |
| V2 Code |
|  |