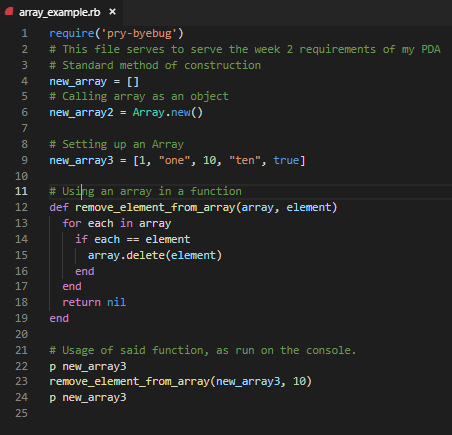
**Evidence Gathering Document for SQA Level 8 Professional Developer Award.**

This document is designed for you to present your screenshots and diagrams relevant to the PDA and to also give a short description of what you are showing to clarify understanding for the assessor.

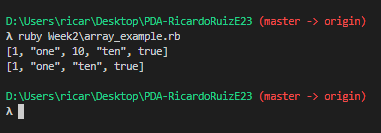
Each point that required details the Assessment Criteria (What you have to show) along with a brief description of the kind of things you should be showing.

Please fill in each point with screenshot or diagram and description.

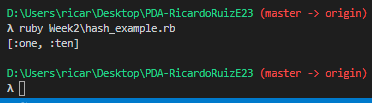
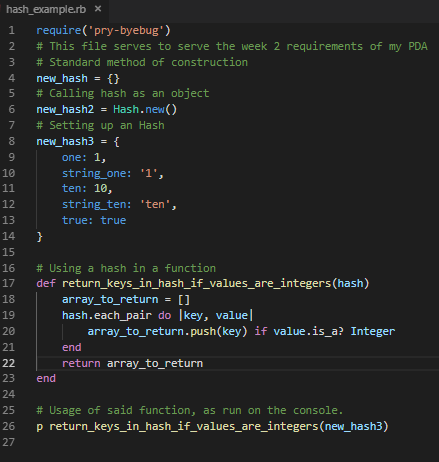
**Week 2**



| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| I&T | I.T.5 | Demonstrate the use of an array in a program. Take screenshots of:  \*An array in a program  \*A function that uses the array  \*The result of the function running | |



* Lines 4, 6 and 9 are arrays in a program
* Line 12 is a function that removes an element from the array based on the element itself
* Second screenshot shows the array before and after the function

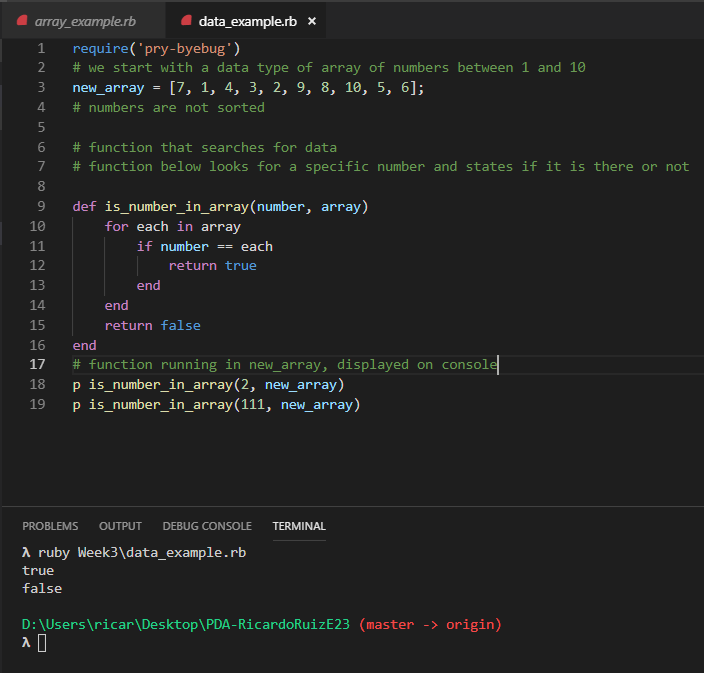


| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| I&T | I.T.6 | Demonstrate the use of a hash in a program. Take screenshots of:  \*A hash in a program  \*A function that uses the hash  \*The result of the function running | |

* Lines 4, 6 and 8 are hashes in a program
* Line 17 is a function builds a new array and returns it filled with keys from the hash if the elements are integers
* Second screenshot the returned array from the hash

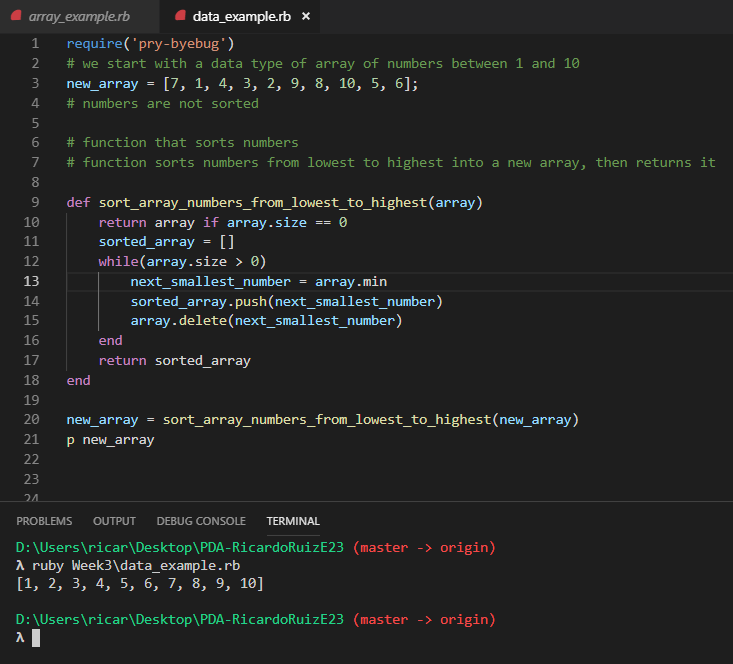
**Week 3**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| I&T | I.T.3 | Demonstrate searching data in a program. Take screenshots of:  \*Function that searches data  \*The result of the function running | |



* An array is created on line 3
* Function on line 9 iterates through the array checking each number until it comes across any instance of the desired number, or until it iterates through the entire array
* Console prints out true or false to that function

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| I&T | I.T.4 | Demonstrate sorting data in a program. Take screenshots of:  \*Function that sorts data  \*The result of the function running | |



* Array is created on line 3
* Function on line 9 creates a temporary array, and pushes the lowest number on the unsorted array to itself.
* New array was set to the returned value, then printed.

**Week 5**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| A&D | A.D.1 | A Use Case Diagram | |

**Paste Screenshot here**

**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| A&D | A.D.2 | A Class Diagram | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| A&D | A.D.3 | An Object Diagram | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| A&D | A.D.4 | An Activity Diagram | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| A&D | A.D.6 | Produce an Implementations Constraints plan detailing the following factors:  \*Hardware and software platforms  \*Performance requirements  \*Persistent storage and transactions  \*Usability  \*Budgets  \*Time | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.5 | User Site Map | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.6 | 2 Wireframe Diagrams | |

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| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.10 | Example of Pseudocode used for a method | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.13 | Show user input being processed according to design requirements. Take a screenshot of:  \* The user inputting something into your program  \* The user input being saved or used in some way | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.14 | Show an interaction with data persistence. Take a screenshot of:  \* Data being inputted into your program  \* Confirmation of the data being saved | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.15 | Show the correct output of results and feedback to user. Take a screenshot of:  \* The user requesting information or an action to be performed  \* The user request being processed correctly and demonstrated in the program | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.18 | Demonstrate testing in your program. Take screenshots of:  \* Example of test code  \* The test code failing to pass  \* Example of the test code once errors have been corrected  \* The test code passing | |

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**Week 7**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| I&T | I.T.7 | The use of Polymorphism in a program and what it is doing. | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| A&D | A.D.5 | An Inheritance Diagram | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| I&T | I.T.1 | The use of Encapsulation in a program and what it is doing. | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| I&T | I.T.2 | Take a screenshot of the use of Inheritance in a program. Take screenshots of:  \*A Class  \*A Class that inherits from the previous class  \*An Object in the inherited class  \*A Method that uses the information inherited from another class. | |

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**Description here**

**Week 10**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.11 | Take a screenshot of one of your projects where you have worked alone and attach the Github link. | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.12 | Take screenshots or photos of your planning and the different stages of development to show changes. | |

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| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.9 | Select two algorithms you have written (NOT the group project). Take a screenshot of each and write a short statement on why you have chosen to use those algorithms. | |

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**Week 12**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.16 | Show an API being used within your program. Take a screenshot of:  \* The code that uses or implements the API  \* The API being used by the program whilst running | |

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**Week 15**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.1 | Take a screenshot of the contributor’s page on Github from your group project to show the team you worked with. | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.2 | Take a screenshot of the project brief from your group project. | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.3 | Provide a screenshot of the planning you completed during your group project, e.g. Trello MOSCOW board. | |

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| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.4 | Write an acceptance criteria and test plan. | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.7 | Produce two system interaction diagrams (sequence and/or collaboration diagrams). | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.8 | Produce two object diagrams. | |

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**Description here**

| Unit | Ref | Evidence |  |
| --- | --- | --- | --- |
| P | P.17 | Produce a bug tracking report | |

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