**Section: Programming (Advocate: Manish Gadhvi)**

**Provide a definition of what an algorithm is and outline the process in building an application.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement  <https://github.com/George-Haughton/Programming-Mapping-documents>  The link will take you to a page where I talk about the process that goes into designing, developing and building an app, and will also show the complete definition of an algorithm. To find this evidence find 1. |

**Give explanations of what procedural, object orientated and event driven paradigms are; their characteristics and the relationship between them.**

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**Write a program that implements an algorithm using an IDE.**

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**Explain the debugging process and explain the debugging facilities available in the IDE.**

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**Outline the coding standard you have used in your code.**

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**Determine the steps taken from writing code to execution.**

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**Analyse the common features that a developer has access to in an IDE.**

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**Use the IDE to manage the development process of the program.**

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**Evaluate how the debugging process can be used to help develop more secure, robust applications.**

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**Examine the implementation of an algorithm in a suitable language. Evaluate the relationship between the written algorithm and the code variant.**

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**Critically evaluate the source code of an application which implements the programming paradigms, in terms of the code structure and characteristics.**

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**Evaluate the use of an IDE for development of applications contrasted with not using an IDE.**

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**Critically evaluate why a coding standard is necessary in a team as well as for the individual.**

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