**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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| This link will explain fully the definition of an Algorithm. Also it shows the step by step guide on the process of building and app.  <https://github.com/George-Haughton/Programming-Mapping-documents#programming-mapping-documents> |

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

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| This link will take you through all three Paradigms, it will explain, give definitions, characteristic and the relationships between each one.  <https://github.com/George-Haughton/Paradigms#1-paradigms> |

Write a program that implements an algorithm using an IDE.

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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 |

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

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| This link will go through the whole of the debugging process from start to finish and then I go on to speak about what debugging features are key to completely erasing a bug.  <https://github.com/George-Haughton/Programming-Mapping-documents/blob/master/README.md#debugging> |

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

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| This link will explain the coding standard I will be using when I write my code. For example I will be using indentations to help me or the reader better understand my coding.  <https://github.com/George-Haughton/Programming-Mapping-documents/blob/master/README.md#coding-standards> |

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

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| This link will show you in full the steps you should take from start to finish when it comes to a new client from writing code to giving the finished product back to the client.  <https://github.com/George-Haughton/Programming-Mapping-documents/blob/master/README.md#writing-code-to-execution> |

**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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