**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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| <https://github.com/SDearing/Glossary-of-Tech-Terms> |
| In the document a definition of an algorithm has been given with a breif description of the process in building a application.  In the same document is the process of building an application under the header **The Process of Building an Application.** |

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

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| <https://github.com/SDearing/Glossary-of-Tech-Terms> |
| In this document all pardigms are described and differences between them have been described |

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

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| <https://github.com/SDearing/Project-03>  <https://github.com/SDearing/Project-02> |
| Both these projects were completed by designing an algorithm (flowchart) and then implementing that into actual code using an IDE  I talk about the IDE I use under the header **IDE.** |

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

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| <https://github.com/SDearing/Glossary-of-Tech-Terms> |
| The debugging process is explained under the header **The Debugging Process**  Debugging facilities in the IDE are explained under the header **The Debugging Facilities Available in the IDE**. |

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

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| <https://github.com/SDearing/Project-03>  <https://github.com/SDearing/Project-02> |
| In both projects I have outlined the coding standards I use, in the **development plan** section. |

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

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| <https://github.com/SDearing/Glossary-of-Tech-Terms> |
| Under the header **The Steps from writing code to execution** I go through the stages needed for written code to be executed. |

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

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| <https://github.com/SDearing/Project-02> |
| In the **IDE** section of the **development plan** I briefly list some of the features in an IDE that I will be using to complete the coding for my |

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

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| <https://github.com/SDearing/Project-02>  <https://github.com/SDearing/Project-03> |
| In both these projects an IDE was used to complete the programming stage (screenshots in projects)  In the documentations I have spoken about how the IDE helped with certain parts of development.  Look under header **IDE** to find what IDE i used. |

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

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| TBD |
| 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 |

**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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| <https://github.com/SDearing/Project-02> |
| In this project I have compared my flowchart with my actual finished code and noted down the differences and similarities and why these changes ocurred. |

**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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| TBD |
| 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 |

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

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| TBD |
| 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 |

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

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| <https://github.com/SDearing/Why-a-Coding-Standard-is-Necessary/blob/master/README.md> |
| In this documentation there is a article critically evaulating why a coding standard is necessary. |