**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. |

**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 a IDE |

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

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| <https://github.com/SDearing/Project-02> |
| In the IDE section of the Development Plan, I explain the benefits of using an IDE one of the benefits I mention is the debugger tool and explain what it does and how it helps me test my code. |

**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 |

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

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| <https://github.com/SDearing/Project-02> |
| In the development section I systematically go through each milestone of the development process, explaining what each new versions properties are and how I coded them.  Explain how a code is run (mention compilers/interpreters) |

**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 |

**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  Article |

**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  Do this for the code for project 2 |

**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. |