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

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Glossary-of-Tech-Terms/blob/master/README.md#-algorithm-> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Glossary-of-Tech-Terms/blob/master/README.md#--2> |
|  |

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

|  |
| --- |
| [https://github.com/Oliver-Slape/Project-002#](https://github.com/Oliver-Slape/Project-002)  [https://github.com/Oliver-Slape/Project-003#](https://github.com/Oliver-Slape/Project-003)  <https://github.com/Oliver-Slape/Project-003/blob/master/README.md#ide> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Wiki/blob/master/README.md#debugging>  <https://github.com/Oliver-Slape/Project-003#---3> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Project-003/blob/master/README.md#---4> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Wiki/blob/master/README.md#from-code-to-execution> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Wiki/blob/master/README.md#intergrated-development-environmnet-ide> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Project-003/blob/master/README.md#ide>  <https://github.com/Oliver-Slape/Project-002#-process-of-implememntation-> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Wiki/blob/master/README.md#debugging> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Project-002#-process-of-implememntation->  <https://github.com/Oliver-Slape/Project-003/blob/master/README.md#-----19> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Project-002/blob/master/README.md#---4> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Wiki/blob/master/README.md#intergrated-development-environmnet-ide>  <https://github.com/Oliver-Slape/Wiki/blob/master/README.md#text-editor>  <https://github.com/Oliver-Slape/Wiki/blob/master/README.md#text-editor-vs-ide> |
|  |

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

|  |
| --- |
| <https://github.com/Oliver-Slape/Wiki/blob/master/README.md#coding-standards-in-teams> |
|  |