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

**P1 Provide a definition of what an algorithm is and outline the process in building an application.**

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| <https://github.com/Fabijuss/glossary>  <https://github.com/Fabijuss/Programming/blob/master/Application-Building> |
| 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 |

**P2 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/Fabijuss/Programming/blob/master/Paradigms> |
| 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 |

**P3 Write a program that implements an algorithm using an IDE.**

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**P4 Explain the debugging process and explain the debugging facilities available in the IDE.**

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| <https://github.com/Fabijuss/Programming/blob/master/Debugging>  <https://github.com/Fabijuss/Programming/blob/master/IDE> |
| 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 |

**P5 Outline the coding standard you have used in your code.**

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| <https://github.com/Fabijuss/trace-ball#coding-standards> |
| 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 |

**M1 Determine the steps taken from writing code to execution.**

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**M2 Analyse the common features that a developer has access to in an IDE.**

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**M3 Use the IDE to manage the development process of the program.**

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**M4 Evaluate how the debugging process can be used to help develop more secure, robust applications.**

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**D1 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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**D2 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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**D3 Evaluate the use of an IDE for development of applications contrasted with not using an IDE.**

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**D4 Critically evaluate why a coding standard is necessary in a team as well as for the individual.**

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