| VCE Software Development: School-assessed Task 2016 | | | | | | | |
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| **Assessment Criteria** | Levels of Performance | | | | | | |
| **Not shown** | **1–2 (low)** | | **3–4** | **5–6 (medium)** | **7–8** | **9–10 (high)** |
| **6.**  Skills in using a programming language to develop a software solution that meets specific needs or opportunities. |  | Applies limited processing features of the language to develop a partial solution.   * Instructions * Procedures * Limited use of control structures * Limited conventions followed     Writes limited internal documentation with minimal formatting.   * Limited comments * Limited formatted including: * Above a section of code * To the right of code blocks   Applies limited data validation techniques to check the reasonableness of some input data.   * One of: * Existence checking * Range checking * Type checking * Limited check of input data   Limited evidence of a sorting algorithm in the solution.   * Sorting algorithm included, but may not work or be suitable | | Applies some processing features of the language to develop a solution. Inaccuracies and omissions affect the operation of the solution. Applies inconsistently some coding conventions.   * Instructions * Procedures * Some methods * Some functions * Some use of control structures * Inaccuracies and omissions * Some conventions followed   Writes some formatted internal documentation.   * Some comments * Some formatting including: * Above a section of code * To the right of code blocks   Applies some relevant data validation techniques to check the reasonableness of most input data.   * Some of: * Existence checking * Range checking * Type checking * Some checking of input data   Writes a solution with a sorting algorithm with some level of complexity.   * Sorting algorithm included with some level of complexity | Selects and applies a range of processing features of the language to develop a solution. Some errors of correctness or completeness exist. Coding conforms to some accepted conventions.   * Instructions * Procedures * Methods * Functions * Some use of control structures including * Sequence * Selection * Repetition * Errors of correctness or completeness * Some accepted conventions followed   Writes some formatted internal documentation with relevant program comments, however, inconsistencies exist.   * Some comments * Some relevant program comments * Follow some conventions * Some formatting including: * Header with purpose * Above a section of code * To the right of code blocks * Inconsistencies exist   Applies efficiently and effectively some relevant data validation techniques to check the reasonableness of input data.   * Includes: * Existence checking * Range checking * Type checking * Checks the reasonableness of input data   Documents a solution with a mostly complex sorting algorithm.   * Suitable use of a sorting algorithm * Some level of efficiency | Correctly selects and applies a wide range of relevant processing features of the language to develop a solution. Minor errors exist. Coding confirms to most accepted conventions.   * Instructions * Procedures * Methods * Functions * Control structures * Conventions: * Naming of objects and files * Indenting of code * Minor errors exist   Writes internal documentation that contains relevant program comments and is formatted.   * Detailed comments * Relevant program comments * Follows most conventions * Formatted including: * Headers with purpose, author and date last edited * Above a section of code * To the right of code blocks   Applies efficiently and effectively most relevant data validation techniques to check the reasonableness of input data.   * Applies relevant techniques of: * Existence checking * Range checking * Type checking * Checks the reasonableness of input data   Documents a solution with a complex sorting algorithm.   * Sorting algorithm suitable for solution * Efficient use | Correctly selects and skilfully applies an extensive range of relevant processing features of the language to develop a correct solution. Coding conforms to all accepted conventions.   * Instructions * Procedures * Methods * Functions * Control structures * Conventions: * Naming of objects and files * Indenting of code   Writes clearly internal documentation that is comprehensive, contains relevant program comments and is well formatted.   * Comprehensive comments * Relevant program comments * Follow conventions * Formatted including: * Headers with purpose, author and date last edited * Above a section of code * To the right of code blocks   Applies efficiently and effectively all relevant data validation techniques to check the reasonableness of input data.   * Existence checking * Range checking * Type checking * Check of all input data   Documents the efficient use of a complex sorting algorithm in the solution.   * Complex sorting algorithm suitable for intended purpose * Efficient in terms of sort time |