

	Criteria	Sub-criteria	1	2	3	4-5	6
1	Ability to demonstrate design solution	Construct correct pseudocode	Unable to construct	Able to construct but with wrong logic	Able to construct correctly but with missing elements	Able to construct correctly and use proper elements	Able to construct correctly, use proper elements and documentation
2	Ability to analyse problem and identify requirements	Identify correct input / output	Unable to identify any input and output	Able to identify only one input or output	Able to identify correctly some input and output	Able to identify correctly all input and output	Able to identify correctly all input and output and provide alternative
3	Ability to apply required data type or data structure	Appropriate choice of variable names or data structure	Unable to identify required data type or data structure	Able to identify required data type or data structure but does not apply correctly	Able to apply required data type or data structure but does not produce correct results	Able to apply required data type or data structure and produce partially correct results	Able to apply required data type or data structure and produce correct results
4	Ability to apply required flow control structure	Correct choice of sequential, selection or repetition control flow structure	Unable to identify required control structure	Able to identify required control but does not apply correctly	Able to apply required control structure but does not produce correct results	Able to apply required control structure and produce partially correct results	Able to apply required control structure and produce correct results
5	Ability to modularise	Construct modularised programs	Unable to modularise	Able to use one or a few modularised elements, but not to write a modularised program	Able to write modularised programs, but with problems in the structure and/or functioning	Able to write modularised programs	Able to write fully modularised programs, using proper documentation
6	Ability to run/debug	Free from syntax, logic, and runtime errors	Unable to run program	Able to run program but have logic error	Able to run program correctly without any logic error	Able to run program correctly without any logic error and display inappropriate output	Able to run program correctly without any logic error and display appropriate output
7	Ability to produce readable program	Comment / Description	No documentation	Documentation is simple comment in code	Documentation is simple comments embedded in code and header describing input and output	Documentation is simple comments and header that is useful in understanding the code. Modularised elements display documentation	Documentation is well-written and clearly explains what each part/element of the code is accomplishing. The header contains info about the developer, the code release and updates, licence, etc.
8		Indentation / Naming Convention	Unable to organise the code	The code is poorly organised and very difficult to read	The code is readable only by a person who already knows its purpose	The code is fairly easy to read	The code is extremely well organized and easy to follow
9	Ability to complete exercise	Program is complete (input/action(s)/output)	Unable to collect the output	The output is collected but it is not used	The output is collected and used, but output is not generated	The output is collected and used, but the program does not display correct results	The output is collected and used, and correct output is generated