## ECM1421 – 2023 – CA 1 – Marking Guide for Students

Submission	Requirement	Marks
Point		
Task 1		
A1	Program meets functional	User Prompt (2)
Python Program	requirements as specified.	Calculations (3)
'woodenbox1.py'		Output format (2)
		Program exit (3)
	User Input validation	As specified (10)
	Programming Standards	Use of functions for repeated code and for
		clear program structure. (2)
		Clear, readable coding. (2)
		Clear naming of variable and structures. (2)
		Comments and docstrings. (2)
		Program layout (2)
		Comments should be clear e.g., docstrings
		describe purpose of functions
	Program Layout	Thonny should not throw up code analysis comments.
		Code should be easily readable e.g.use of
		blank lines should be appropriate.
Total A (i)		30 marks
A2	Flowchart fort	Algorithm content (flowchart symbols) and
Flowchart algorithm	woodenbox1.py	structures. (5)
Total task 1 A (ii)		5 marks
В	Functional Requirements	Program runs correctly (1).
Python Program		
'woodenbox2.py'		
	Output	Output format as specified.(1)
		Length calculations correct. (1)
		Number of bases pieces correct. (1)
		Total length correct, (with rounding as
		specified). (1)
Total Task 1 B		5 marks
Total Task 1		40 marks

Task 2	TicketIt	
2 a	Functional Requirements	Output file created correctly. (1)
Python Program		Output file layout correct – columns and
'ticketit_prep.py'		headings (3)
,		Output file data correct (7 columns) (14)
	Programming Standards	Use of functions for repeated code and for
		clear structure. (1)
		Clear, readable, efficient coding of program
		algorithm. (2)
		Clear naming of variable and structures. (1)
		Clear and appropriate docstrings. (1)
Total 2 a		23 marks
2 b. i.	Functional Requirements	Output file created correctly. (1)
Python Program		Output file layout. (2)
'ratings_analysis.py'		Output file data. (8)
	Programming Standards	Use of functions for repeated code and for
		clear structure. (1)
		Clear, readable, efficient coding of program
		algorithm. (2)
		Clear naming of variable and structures. (1)
		Clear and appropriate docstrings. (1)
Total Task 2b (i)		16 marks
Task 2 b. (ii)	As specified.	File name. (1)
Ratings Visualisation		Graph Format.(1)
		Graph Title.(1)
		Axis Labels.(1)
		Legend.(1)
		Data.(1)
Total Took 2 h /ii\		Axis Data Points. (2)  8 marks
Total Task 2 b (ii) Total Task 2 b		24 marks
Task 2 c	Cupational Dominaments	
Python Program	Functional Requirements	Output file created correctly. (1) Output file layout as specified. (2)
'monthly_analysis.py'		Output file data (12 columns, 20 rows).(5)
,		Output file data (12 coldiffils, 20 fows).(3)
	Programming Standards	Use of functions for repeated code and
		clear structure. (1)
		Clear, readable, efficient coding of program
		algorithm. (2)
		Clear naming of variable and structures. (1)
		Clear and appropriate docstrings (1)
Total Task 2c		13 marks
Total Task 2		60 marks
Coursework		100 marks
Total		
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