

Task 7 Practical Test Paper: Programming

Task 7: Programming Practical Test - Unit 4 - 7.5%

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Instructions To Students

Answer all parts of the practical test. Complete your work in the approved programming environment and submit your final evidence through the LMS.

You must work independently. Do not use unapproved internet resources, messaging, generative AI, copied code or another student's work.

Scenario

A Year 12 student wants a small program that helps them check whether a short study session is balanced.

The program should:

1. ask for the student's name
2. ask for the number of minutes spent revising theory
3. ask for the number of minutes spent practising questions
4. calculate the total study time
5. display the total study time
6. display feedback:
 - if total study time is less than 30 minutes, display `Short session - add more practice`
 - if total study time is 30 to 60 minutes, display `Balanced session`
 - if total study time is more than 60 minutes, display `Long session - take a break`
7. allow the student to enter study times for three sessions
8. display the number of balanced sessions at the end

Part A: Program Understanding And Design

Question 1

Complete the input-process-output table.

Inputs	Processing	Outputs

Question 2

Complete the data plan.

Value	Suitable data type	Reason
student name		
theory minutes		
practice minutes		
balanced session count		

Question 3

Write pseudocode or structured planning notes for the main logic.

Part B: Program Construction

Create the program described in the scenario.

Your program must show:

- input
- processing
- output
- suitable variables
- sequence
- selection
- iteration
- a final count of balanced sessions

Part C: Testing, Debugging And Documentation

Question 4

Complete the test table.

Test type	Test data	Expected result	Actual result
Normal	Theory 20, practice 25	Total 45, balanced session	
Boundary	Theory 15, practice 15	Total 30, balanced session	
Boundary	Theory 30, practice 30	Total 60, balanced session	
Invalid or unexpected	Theory -5, practice 20	Program should not accept negative time, or should be identified as a limitation if validation is not built	

Question 5

Complete a trace table for one loop iteration using theory minutes = 20 and practice minutes = 25.

Step	theoryMinutes	practiceMinutes	totalMinutes	feedback	balancedCount
Start of iteration					
After input					
After calculation					
After selection					
After counter update					

Question 6

Add at least one comment or short explanation that helps a reader understand an important part of your code.

Submission

Submit your final programming file and completed evidence through the LMS using:

CSCGT_Task7_2026_Surname_FirstName