

CHAPTER 3: PLANNING YOUR SOLUTION

Interactive Worksheet | CMPD183

Name: _____ Student ID: _____

Instructions: Complete the tasks.

PART A — Documentation

1. Select the TWO types of documentation:

☐ Internal documentation ☐ External documentation ☐ Runtime documentation

2. Internal documentation is mainly for: ☐ End users ☐ Programmers

3. External documentation is mainly for: ☐ End users ☐ Programmers

5. Select TWO examples of external documentation:

☐ User Manual ☐ Installation instructions ☐ Variable name

PART B — Testing and Debugging

6. Testing is used to discover errors and to ensure _____ of program.

7. Test data means: ☐ Values entered to test a program ☐ Comments in source code

8. Match each term to its meaning (write A, B, or C)

Term	Meaning
A. Bug	_____ Process of identifying and correcting errors
B. Debugging	_____ Coding error in a program
C. Syntax	_____ Rules governing a programming language

9. Why do programmers test a program?

- ☐ To make the program look colorful
☐ To find errors and make sure the program works correctly
☐ To make the program longer
☐ To delete the source code

PART C — Types of Errors

10. Choose the correct error type for each situation.

Situation	Syntax	Logic	Runtime
A. The code says prit("Hi") instead of print("Hi").	☐	☐	☐
B. Program divides a number by zero.	☐	☐	☐
C. Program runs but calculates the wrong average.	☐	☐	☐

11. A syntax error must be corrected before the program can be executed. ☐ True ☐ False

12. A compiler can always detect logic errors. ☐ True ☐ False

PART D — Coding the Solution

14. Coding means converting an algorithm into a real program using a suitable _____ language.

15. Put these steps in order by writing 1–4:

Step	Order
Analysing the problem	_____
Testing the solution	_____
Organizing the solution	_____
Coding the solution	_____

END OF WORKSHEET