

Semester: July 2025 – Nov 2025			
Maximum Marks: 10	Debug Test	Duration : 10 min	
Programme: B.Tech	Class: FY	Semester: I (SVU 2023)	
Name of the Constituent College: K. J. Somaiya College of Engineering			
Course Code:	Name of the Course: Structure Programming		
Roll No:	Name:		
Division and Batch:	Sign:		
Instruction:- There will be logical, syntax error, or missing statements (more than one line) in the given program. A student needs to identify and correct it. If needed type the corrected code accordingly in given format.			
Line no	Error	Explanation	corrected code

Question	WAP to check whether a number is an Armstrong number or not. (An Armstrong number is a number that equals the sum of the cubes of its digits. Example: $153 = 1^3 + 5^3 + 3^3 \rightarrow$ Armstrong number.)
<pre> 1. #include <iostream> 2. #include <cmath> 3. using namespace std; 4. int main() 5. { 6. int num, originalNum, remainder, result; // Error 7. cout << "Enter a number: "; 8. cin << num; // Error 9. originalNum = num; 10. while (num > 0); // Error 11. { 12. remainder = num % 10; 13. result = result + pow(remainder, 3); 14. num = num / 10 // Error 15. } 16. if (originalNum == result) // Error 17. cout << "Armstrong number"; 18. else 19. cout << "Not Armstrong number" // Error 20. }</pre>	

Line no	Error	Explanation	corrected code	marks
6	Logical error	Variable result not initialized	result = 0;	2
8	Syntax error	Wrong input operator used	cin >> num;	2
10	Syntax error	Semicolon after while ends loop prematurely	while (num > 0) (remove semicolon)	2
14	Syntax error	Missing semicolon after statement	num = num / 10	1
16	Logical error	Assignment operator used instead of	if (originalNum == result)	2

comparison				
19	Syntax error	Missing semicolon at end of statement	cout << "Not Armstrong number";	1