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 if the entered loginID entered if valid or not. The first 5 places should be alphabets and next 3 places should be digits. Example: Sumit123 is valid, Abhijit123 is Not valid.

```
1.  #include <iostream>
2.  #include <cctype>
3.  using namespace std;
4.  bool validateLoginID(string loginID)
5.  {
6.      if (loginID.length() == 8)  // (Error here)
7.          return false;
8.      for (int i = 0; i < 5; i++)
9.      {
10.         if (isalpha(loginID[i])) // (Error here)
11.             return false;
12.     }
13.     for (int i = 5;i<8 ; i++)
14.     {
15.         if (!isdigit(loginID[i]))
16.             return false;
17.     }
18.     return false; // (Error here)
19. // (Error here)
20. int main()
21. {
22.     string loginID;
23.     cout << "Enter your login ID: ";
24.     cin >> loginID // (Error here)
25.     if (validateLoginID(loginID))
26.         cout << "Login ID is valid." << endl;
27.     if              // (Error here)
28.         cout << "Login ID is invalid." << endl;
29. }
```

Line no	Error	Explanation	corrected code	marks

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6	Logical Error	Length check condition is incorrect	if (loginID.length() != 8)	2
10	Logical Error	Missing not condition for alphabet check	if (!isalpha(loginID[i]))	2
18	Logical Error	Final return should be True if all checks pass	return true;	2
19	Syntax Error	Curly bracket missing at the end of for loop	return false; }	2
24	Syntax Error	Missing semicolon after input statement	cin >> loginID;	1
27	Logical Error	else keyword missing after if block	else	1