

<b>Semester: July 2025 – Nov 2025</b>										
<b>Maximum Marks: 10</b>	<b>Debug Test</b>	<b>Duration : 15 min</b>								
<b>Programme: B.Tech</b>	<b>Class: FY</b>	<b>Semester: I (SVU 2023)</b>								
<b>Name of the Constituent College:</b> K. J. Somaiya College of Engineering										
<b>Course Code:</b>	<b>Name of the Course: Structure Programming</b>									
<b>Roll No:</b>	<b>Name:</b>									
<b>Division and Batch:</b>	<b>Sign:</b>									
<p><b>Instruction:-</b>            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.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">Line no</th> <th style="padding: 2px;">Error</th> <th style="padding: 2px;">Explanation</th> <th style="padding: 2px;">corrected code</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Line no	Error	Explanation	corrected code				
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<b>Question</b>	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.		
<pre> 1. #include &lt;iostream&gt; 2. #include &lt;cctype&gt; 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 &lt; 15; i++) // (Error here) 9.   { 10.     if (!isalpha(loginID[i])) 11.       return false; 12.   } 13.   for (int i = 5;i&lt;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 &lt;&lt; "Enter your login ID: "; 24.   cin &gt;&gt; loginID // (Error here) 25.   if (validateLoginID(loginID)) 26.     cout &lt;&lt; "Login ID is valid." &lt;&lt; endl; 27.   if // (Error here) 28.     cout &lt;&lt; "Login ID is invalid." &lt;&lt; endl; 29. }</pre>			

Line no	Error	Explanation	corrected code	marks
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6	Logical Error	Length check condition is incorrect	if (loginID.length() != 8)	2
8	Logical error	For loop initial condition is incorrect	for (int i = 0; i < 5; 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