



Daffodil International University
Faculty of Science & Information Technology
Department of Software Engineering
Final Examination, Summer 2026

RIA

Course Code: SE 121; Course Title: Structured Programming
Sections & Teachers: A, B, C (MIR), D, E (MR), F, G, H (MNA), I (KRY)
Time: 2:00 Hrs Marks: 40

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

1.	a)	Examine the following programs and modify them to correct the errors.		[Marks-8]	CLO-2 Level-3					
		(i) #include <stdio.h> int main(){ char name= "Alice"; printf("Enter your name: "); scanf("%s", &name); printf("The first letter of your name is: %s\n", name[1]); return 0; }	(ii) #include <stdio.h> #include <string.h> int main(){ char str1[20], str2[20]; strcpy(str2); for(int i = 0; str1[i] = '\0'; i++) printf("%s", str1[i]); printf("\nLength = %d", strlen(str2, str1)); return 0; }							
	b)	Daffodil International University is developing a new Student Registration Portal to simplify the course registration process. To ensure that only registered DIU students can create an account, the portal accepts registrations only from official university email addresses. During registration, the system verifies whether the entered email address ends with @diu.edu.bd. If it does, the registration proceeds; otherwise, the email is rejected. Build a C program based on the scenario above that takes an email address as input and checks whether it is a valid DIU email address. <table border="1" style="width: 100%;"><tr><td style="width: 50%;">Sample Input</td><td style="width: 50%;">Sample Output</td></tr><tr><td>Enter your DIU email: mr@diu.edu.bd</td><td>Valid DIU Email</td></tr></table>			Sample Input	Sample Output	Enter your DIU email: mr@diu.edu.bd	Valid DIU Email	[Marks-7]	
Sample Input	Sample Output									
Enter your DIU email: mr@diu.edu.bd	Valid DIU Email									
2.	a)	Determine the output of the following C program and trace your answer.			[Marks-8]	CLO-3 Level-3				