



Course:	Structured Programming Methodology			Semester:	I	Date:	
Division:		Batch:		SET	F	Name:	
Exam:	OST			Time:		Roll No:	

Q No	Question	Marks						
1	<p>Write a program to count how many numbers between 40 and 50 (including both) have a - sum of digits that is divisible by 5 using user defined functions.</p> <p>For example: 45. Its sum of digits is : $4 + 5 = 9$, and 9 is NOT divisible by 5, so 45 should NOT be counted. 41 is $4 + 1 = 5$, and 5 is divisible by 5, so 41 should be counted.</p> <p style="text-align: center;">OR</p>	15						
2.a	<p>Write a program to print the multiplication table of a number using user-defined function.</p> <table><tr><th>Test Case 1</th><th>Test Case 2</th></tr><tr><td>Input: 5 Output: prints $5 \times 1 = 5 \dots 5 \times 10 = 50$</td><td>Input: $n = 9$ Output: prints $9 \times 1 = 9 \dots 9 \times 10 = 90$</td></tr></table>	Test Case 1	Test Case 2	Input: 5 Output: prints $5 \times 1 = 5 \dots 5 \times 10 = 50$	Input: $n = 9$ Output: prints $9 \times 1 = 9 \dots 9 \times 10 = 90$	7		
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Input: 5 Output: prints $5 \times 1 = 5 \dots 5 \times 10 = 50$	Input: $n = 9$ Output: prints $9 \times 1 = 9 \dots 9 \times 10 = 90$							
2.b	<p>Write a program that counts repeated vowels in a product name and prints discount based on count (using functions). Conditions: If vowel count $\geq 3 \rightarrow$ discount = 20%. Else no discount. Test Cases:</p> <table><tr><th>Input</th><th>Output</th></tr><tr><td>AudioDevice</td><td>Discount = 20%</td></tr><tr><td>Fan</td><td>No Discount</td></tr></table>	Input	Output	AudioDevice	Discount = 20%	Fan	No Discount	8
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AudioDevice	Discount = 20%							
Fan	No Discount							