





Course Code: CSA0886	Course Name: Python Programming for Crafting Web Applications	
Branch: CSE	Slot: A	Date: 10/07/2024

 $\textbf{Session:} \quad 08.00 \text{ to } 09.30$

Unit	Topic	Programs
		1. Perform student grades by validating the student mark.
	Errors and Exceptions	2. Perform string to numeric conversion with exception handling.
4	Handling Exceptions	3. Create a list with N zeros filled in it.
	Modules	4. Flatten the multi-dimension list.
	Packages	5. Print the transpose of the given matrix.
		6. Print the list's mean, median, and standard deviation.

P. No.	Program		
	Grade		
1	Perform student grades by validating the student mark.		
	Type Conversion		
	Perform string to numeric conversion with exception handling.		
0	Test Case 1:	Input: "5"	
2		Output: 5	
	Test Case 2:	Input: "a"	
		Output: An Error has Occured.	
	Zero Fill		
	Create a list with	h N zeros filled in it.	
3	Test Case 1:	Input: $n = 5$	
3		Output: $[0, 0, 0, 0, 0]$	
	Test Case 2:	Input: $n = 3$	
		Output: [0, 0, 0]	
	Flatten List		
	Flatten the multi-dimension list.		
4	Test Case 1:	Input: [[1, 2, 3], [4, 5, 6]]	
4		Output: [1, 2, 3, 4, 5, 6]	
	Test Case 2:	Input: $[1, [2, 3]]$	
		Output: [1, 2, 3]	
	Transpose		
	Print the transpo	ose of the given matrix.	
5	Test Case 1:	Input: matrix = $[[1, 2, 3], [4, 5, 6], [7, 8, 9]]$	
5		Output: [[1, 4, 7], [2, 5, 8], [3, 6, 9]]	
	Test Case 2:	Input: matrix = $[[1, 2], [3, 4], [5, 6]]$	
		Output: [[1, 3, 5], [2, 4, 6]]	
	Mean, Median, SD		
6	Print the list's mean, median, and standard deviation.		
	Test Case 1:	Input: [2, 4, 6, 8, 10]	
		Output: Mean: 6, Median: 6, Standard Deviation: 3.1622	
	Test Case 2:	Input: [1, 2, 3, 4, 5, 6]	
		Output: Mean: 3.5, Median: 3.5, Standard Deviation: 1.8708	