





Course Code: CSA0886	Course Name: Python Programming for Crafting Web Applications	
Branch: CSE	Slot: A	<b>Date:</b> 17/07/2024

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

P. No.	Program			
	Two Sum Given an array of integer nums and an integer target, return indices of the two many states of the two many states are stated as a sum of the states of the two many states are stated as a sum of the states of the states are stated as a sum of the			
	that they add up to the target. You may assume that each input would have exactly one solution, and			
	you may not use the same element twice. You can return the answer in any order.			
1	Test Case 1:	Input: nums = $[2,7,11,15]$ , target = 9		
		<b>Output:</b> [0,1]		
	Test Case 2:	<b>Input:</b> nums = $[3,2,4]$ , target = 6		
		<b>Output:</b> [1,2]		
	Given an integer x, return true if x is a palindrome and false otherwise.			
2	Test Case 1:	<b>Input:</b> $x = 121$		
		Output: true		
	Test Case 2:	Input: -121		
		Output: false		
3	Write a function to find the longest common prefix string amongst an array of strings. If there is no			
	common prefix, i	return an empty string "".		
	Test Case 1:	Input: $strs = ["flower", "flow", "flight"]$		
		Output: "fl"		
	Test Case 2:	Input: $strs = ["dog", "racecar", "car"]$		
		Output: ""		
	Given a string s containing just the characters '(', ')', ", ", '[' and ']', determine if the			
4	valid. An input string is valid if: Open brackets must be closed by the same type of brackets. Open			
		e closed in the correct order. Every close bracket has a corresponding open bracket of		
	the same type.			
	Test Case 1:	<b>Input:</b> s = "()[]"		
		Output: true		
	Test Case 2:	Input: s = "(]"		
		Output: false		
5	You are given the two sorted lists, list 1 and list 2. Merge the two lists into one sorted list. The list			
		by splicing together the elements of the first two lists. Return the merged list.		
	Test Case 1:	Input: $list1 = [1,2,4]$ , $list2 = [1,3,4]$		
		Output: [1,1,2,3,4,4]		
	Test Case 2:	Input: $list1 = [], list2 = [0]$		
		<b>Output:</b> [0]		