Logo DETAILS Name **B SHREEDHAR** Roll Number KUB23CSE017 **EXPERIMENT** SUB ARRAY WITH MAX SUM Description You are given a list of integers, and your task is to find the subarray with the maximum sum. Write a function or method to solve this problem efficiently and return the maximum sum. Input: n: the no of elements in the array nums (List of integers): A list of integers (1 <= len(nums) <= 10^5) Sample input: 8 -1 2 3 10 -4 7 2 -5 Sample output: 20 Explanation: The max subarry sum is 20. The subarray is [2,3,10,-4,7,2] Source Code: def max\_subarray\_sum(nums): max\_so\_far = nums[0] curr\_max = nums[0] for num in nums[1:]:

def max\_subarray\_sum(nums):
 max\_so\_far = nums[0]
 curr\_max = nums[1:]:
 curr\_max = max(num, curr\_max + num)
 max\_so\_far = max(max\_so\_far, curr\_max)

 return max\_so\_far
 n = int(input())
 nums = list(map(int, input().split()))
 max\_sum = max\_subarray\_sum(nums)
 print(max\_sum)

RESULT

5 / 5 Test Cases Passed | 100 %

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