Logo STUDENT REPORT DETAILS Nar P MOHAMMED SUFIYAN WASI 00 X 478 00, رچي Roll Number 1823 KUB23CSE100 **EXPERIMEN** Title 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  $\leq$  len(nums)  $\leq$  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] FJOOT **Source Code:** def max\_subarray\_sum(nums): max\_so\_far = nums[0]  $curr_max = nums[0]$ 

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

 for num in 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 %

Library Libra