Logo STUDENT REPORT DETAILS YASHWANTH CH Roll Number 3BR23CD107 **EXPERIMENT** 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 <= 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:]: 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 %