Logo DETAILS Name K DRUVI Roll Number & 3BR23CS069 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[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 %