Q). Given an integer array nums, find the subarray with the largest sum, and return its sum. Example 1: Input: nums = [-2,1,-3,4,-1,2,1,-5,4]Output: 6 Explanation: The subarray [4,-1,2,1] has the largest sum 6. Program: def maxSubArray(nums): max sum = float('-inf') current sum = 0for num in nums: current sum = max(num, current sum + num) max_sum = max(max_sum, current_sum) return max sum nums = [-2, 1, -3, 4, -1, 2, 1, -5, 4]print(maxSubArray(nums))

Output:

C:\Users\srika\Desktop\CSA0863\pythonProject\.venv\Scripts\python.exe C:\Users\srika\Desktop\CSA0863\pythonProject\problem.py
6

Process finished with exit code 0

Time complexity:O(n)