## 69. Maximum Subarray

Given an integer array nums, find the subarray which has the largest sum and return its sum.

```
Example 1:
Input: nums = [-2,1,-3,4,-1,2,1,-5,4]
Output: 6
PROGRAM:-
def maxSubArray(nums):
  if not nums:
    return 0
  max_sum = current_sum = nums[0]
  for num in nums[1:]:
    current_sum = max(num, current_sum + num)
    max_sum = max(max_sum, current_sum)
  return max_sum
# Example usage and output
nums1 = [-2, 1, -3, 4, -1, 2, 1, -5, 4]
print(maxSubArray(nums1)) # Output: 6
```

## **OUTPUT:-**

```
6 === Code Execution Successful ===
```

TIME COMPLEXITY:-O(n)