STOCK PORTFOLIO OPTIMIZER

Date: 6th June 2024

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Details of Project: I'm implementing this project by using Python Programming Language.

Code

```
SPO.PY
                    +
1 - def max subarray sum(n,n1):
     max=int()
     sum=0
    for i in range(0,n1):
      sum=sum+n[i]
      if max<sum:</pre>
7
        max=sum
       if sum<0:
9
10
     return max
11 n=list(map(int,input().split()))
12 print(max_subarray_sum(n,len(n)))
```

Input and Output

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STDIN

1-2310-472-5

Output:

18

Explanation:

The function 'max_subarray_sum(n,n1)' is designed to find the maximum sum with a given array n of n1 length. This problem uses the "Kadane's Algorithm".

The function takes the two arguments 'n' and 'n1',n represent the number elements in the list and n1 represent length of list. Then initializing variables 'max' and 'sum'.

The 'for' loop iterate over ecah statements and return the max value according to initialization, takes input from user in list format and calls the max_subarray_sum then print result.

Conclusion:

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The function "max_subarray_sum" uses kadane's Algorithm to find the maximum sum subarray by given list of integers. It over list with help of if loop and return the resultant value then print the result.