

# STOCK PORTFOLIO OPTIMIZER

**Date:** 6<sup>th</sup> June 2024

**Submitted by:** Shaik Fiza Anjum and 22KQ1A0726

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

## Code

Stock Portfolio Optimizer.py



```
1 def max_subarray_sum(arr):
2     if not arr:
3         return 0
4     max_sum = float('-inf')
5     Sum = 0
6     for i in arr:
7         Sum = max(i, Sum + i)
8         max_sum = max(max_sum, Sum)
9     return max_sum
10 stock_prices=list(map(int,input().split()))
11 print( max_subarray_sum(stock_prices))
```

## Input and output

NEW

PYTHON ▾

RUN ▶

STDIN

1 -2 3 10 -4 7 2 -5

Output:

18

## Explanation:

In this program I have implemented Stock Portfolio Optimizer which is nothing but identifying the maximum sum of a subarray within a given list of stock prices in which I have taken if the elements are not in array return 0 then as per given problem I took max\_sum as an input from user and displayed the max\_subarray\_sum of stock prices as output.

## Conclusion:

Finally, I have got the desired output of maximum sum of a subarray within a given input list.