STOCK PAIR FINDER

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Details of project: I'm implementing this project by using python programming Language

Code:

Stock Pair Finder.py +

```python
# Online Python - IDE, Editor, Compiler, Interpreter
def spf(a,t):
    s=set()
    p=[]
    for i in a:
        c=t-i
        if c in s:
            p.append((i,c))
        s.add(i)
    return p
a=list(map(int,input().split()))
t=int(input())
res=spf(a,t)
print(res)

```


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Input and output:

STDIN

```
1 2 3 4 5
6
```

Output:

```
[(4, 2), (5, 1)]
```


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Explanation: In this program I have implemented the project **STOCK PAIR FINDER**

which is nothing but to print the pair of stocks by the target value. For that initially I have defined the function as def_spf. And we hat to print the output pair of stocks. First I implement the user defined function is def spf.

Next step I initialize the empty set() it will store the elements in a and like this I used p[] to store the pair of integers as sum is equal then I used the looping statement is for() this way the loop will iterates through each element of I in list a The loop will true it count the target value – user input I next the conditional statement is checks the count in set() it will return the I value and c value in the p[] as list after this it will add to the set() this returns p value

Finally this implemented program is takes the input from the user and finding the stock pair the loop will run till the target value is equal to the list.

Conclusion:

Finally I got the desired output **[(4,2) , (5,1)]**

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