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
    # Online Python - IDE, Editor, Compiler, Interpreter
 2 v def spf(a,t):
        s=set()
 3
        p=[]
 4
        for i in a:
 5 🕶
             c=t-i
 6
 7 =
             if c in s:
                 p.append((i,c))
 8
 9
             s.add(i)
10
        return p
    a=list(map(int,input().split()))
11
    t=int(input())
12
    res=spf(a,t)
13
14
    print(res)
15
```

Input and output

STDIN

6

Output:

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 have to print the output as pair of stocks.

Next step I initialize the empty set() it will store the elements and I have taken an empty list 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 in a list. And I have claculated count as c value by subracting the each element and target value. And then I used the conditional statement it checks the count in set(). If it is not in the set it added to the p[] else it is added to the set() it will returns the p value and I have taken input from the user a and t and I have called the function spf and prints the stock pair.

Conclusion:

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.

Atlast I got the desired output as [(4,2), (5,1)]