About Project:

Project no :22

Your task is to find the name of the student with maximum marks after updation in marks and the jump in the student's rank i.e., previous rank – current rank.

You are given three ****lists, names, mark's and update's**** where:

- Names contain the names of students.
- Marks contain the marks of the same students.
- Updates contains the integers by which the marks of these students are to be updated.

(Number of levels a student is ranking up or down must be displayed)

(Student is free to decide the input and output layout for this mini project)

Project Code:

```
names=['Tanishka','Ashish','Vipul','Arpit','Krishna','Vinay','Sidharth','Rishikesh','Anushka','Anmol']
marks = [63,83,31,39,28,21,38,25,15,19]
updates = [-15,-22,-10,-17,+19,-9,-7,-16,-6,+3]
# Making The dictionary
a = {}
# Updating the marks
updated_marks=[]
# Arranging the names in order
updated_a={}
for i in range (len(names)):
    # Making the Dictionary of Names and Marks
    a[names[i]]=marks[i]
    # Updating the marks
    updated_marks+=[marks[i]+updates[i]]
    # Making the Dictionary of Names and Updated-Marks
    updated_a[names[i]]=updated_marks[i]
# Sorting the old dictionary
sorted_a=sorted(a.items(), key=lambda z:(z[1],z[0]), reverse=True)
# Sorting the old dictionary
sorted_updated=sorted(updated_a.items(), key=lambda z:(z[1],z[0]),reverse=1)
b=sorted_a
c=sorted_updated
# # !Top Ranker in one row
for i in range(len(b)):
    if c[0][0] == b[i][0] :
        print(f"Name: {c[0][0]}, New Marks {c[0][1]}, New Rank: 1, Old Marks {b[i][1]}, OldRank: {i+1}  Rank Jump: {i}" )
print()
```

```
# ! Print All Students
for i in range(len(c)):
    print(f"Rank: {i+1} ")
    print(f"Name: {c[i][0]}")
    print(f"New Marks: {c[i][1]}")
    for j in range(len(b)):
        if c[i][0] == b[j][0]:
                print(f"Rank Jump: {(j-i)}")
                print(f"Old rank: {j+1}")
                print(f"Old Marks: {b[j][1]}")
    print()

print()
```

Project Output:

Top Ranker in one row

Name: Ashish, New Marks 61, New Rank: 1, Old Marks 83, Old Rank: 1 Rank Jump: 0

Print All Students ranks

Rank: 1
Name: Ashish
New Marks: 61
Rank Jump: 0
Old rank: 1
Old Marks: 83

Rank: 2
Name: Tanishka
New Marks: 48
Rank Jump: 0
Old rank: 2
Old Marks: 63

Rank: 3
Name: Krishna
New Marks: 47
Rank Jump: 3
Old rank: 6
Old Marks: 28

Rank: 4
Name: Sidharth
New Marks: 31
Rank Jump: 0
Old rank: 4
Old Marks: 38

Rank: 5
Name: Arpit
New Marks: 22
Rank Jump: -2
Old rank: 3
Old Marks: 39

Rank: 6
Name: Anmol
New Marks: 22
Rank Jump: 3
Old rank: 9
Old Marks: 19

Rank: 7
Name: Vipul
New Marks: 21
Rank Jump: -2
Old rank: 5
Old Marks: 31

Rank: 8
Name: Vinay
New Marks: 12
Rank Jump: 0
Old rank: 8
Old Marks: 21

Rank: 9
Name: Rishikesh
New Marks: 9
Rank Jump: -2
Old rank: 7
Old Marks: 25

Rank: 10
Name: Anushka
New Marks: 9
Rank Jump: 0
Old rank: 10
Old Marks: 15

About the project Team Members:

Name	Section	Registration No	Roll No	Github Profile	Linkedin Profile
Sujal Bochkar	KOC31	12217305	B66	Linkedin-Sujal Bochkar	Linkedin-Sujal Bochkar
Suphal Bochkar	KOC31	12217305	B67	Linkedin-Suphal Bochkar	Linkedin-Suphal Bochkar
Aditya Tiwari	KOC31	12217452	B68	Linkedin-Aditya Tiwari	Linkedin-Aditya Tiwari