PYTHON PROGRAMMING

Continuous Assessment 2

School of Computer Science and Engineering
Name of the faculty member**: Mr. Mohit Prakram**

Course Code: **INT108** Course Title**: Python Programming**

Maximum Marks: **30 (Thirty)** Time: 2 weeks

Date of Allotment: **Oct 03, 2022** Date of Submission: **Nov 17, 2022**

Submitted by:

S.No	Name	Registration number	Roll no.
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PROJECT STATEMENT

Your task is to find the name of student with Maximum Marks (number of levels a student's rank change has to be displayed) after change in marks and the jump or change in the student's rank that is previous rank – current rank.

You are given three lists 1). Names 2). Marks 3). Updates:

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

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

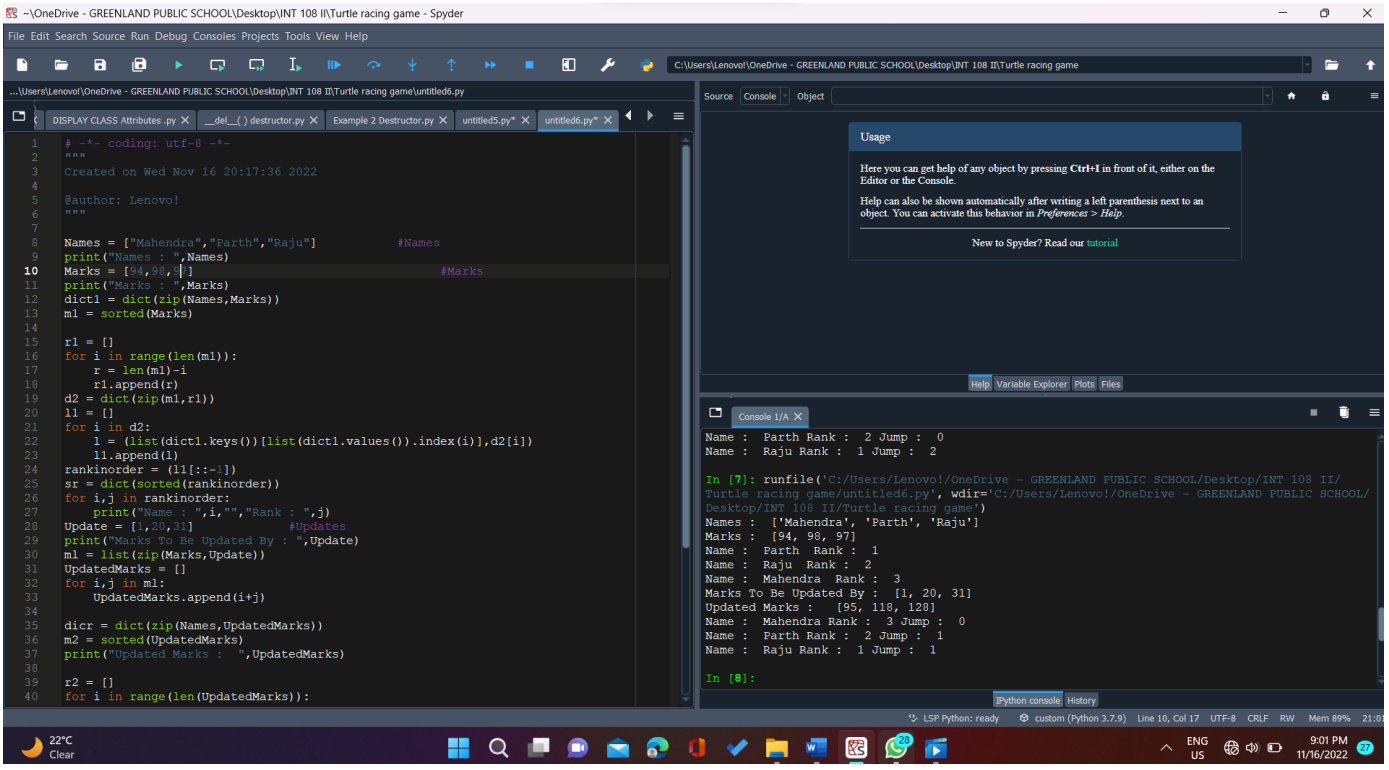
PROJECT SOLUTION CODE:

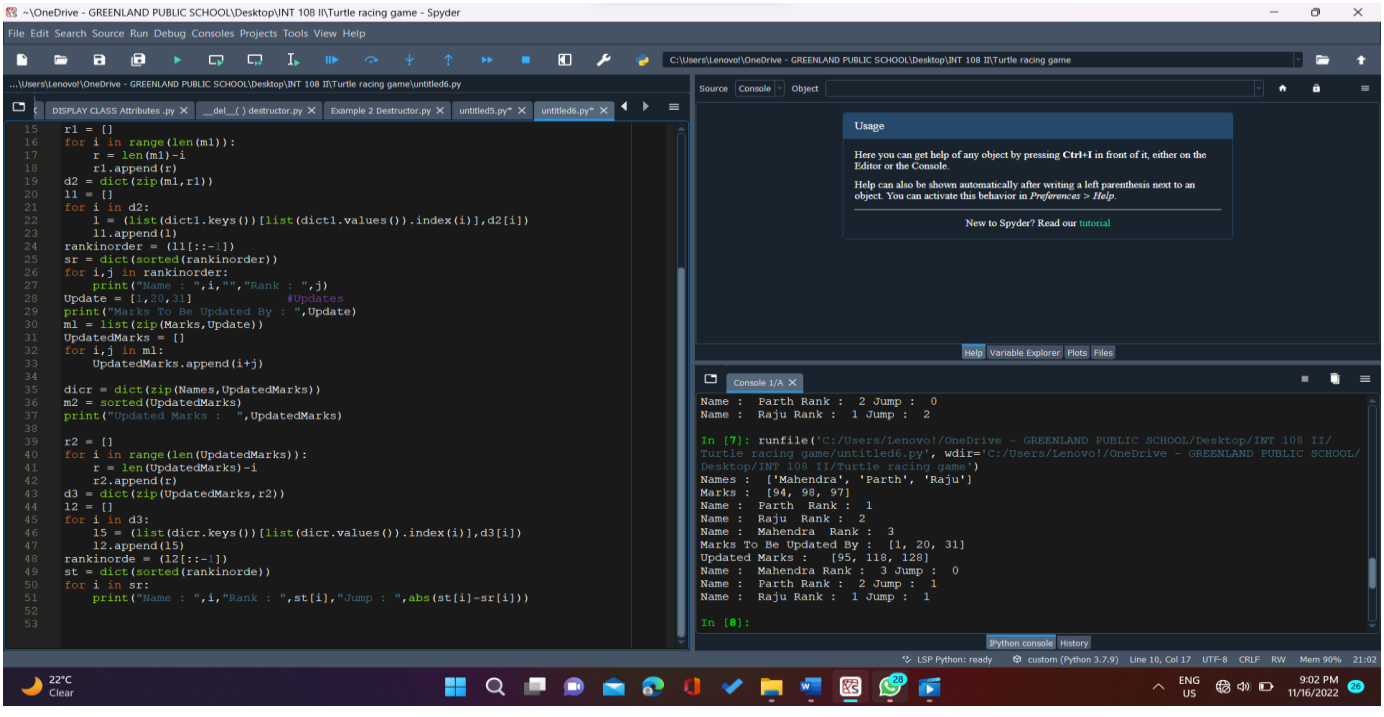
```
Names = ["Mahendra","Parth","Raju"]          #Names
print("Names : ",Names)
Marks = [94,98,97]                           #Marks
print("Marks : ",Marks)
dict1 = dict(zip(Names,Marks))
m1 = sorted(Marks)

r1 = []
```

```
for i in range(len(m1)):
    r = len(m1)-i
    r1.append(r)
d2 = dict(zip(m1,r1))
l1 = []
for i in d2:
    l = (list(dict1.keys())[list(dict1.values()).index(i)],d2[i])
    l1.append(l)
rankinorder = (l1[::-1])
sr = dict(sorted(rankinorder))
for i,j in rankinorder:
    print("Name : ",i,"","Rank : ",j)
Update = [1,20,31]            #Updates
print("Marks To Be Updated By : ",Update)
ml = list(zip(Marks,Update))
UpdatedMarks = []
for i,j in ml:
    UpdatedMarks.append(i+j)

dicr = dict(zip(Names,UpdatedMarks))
m2 = sorted(UpdatedMarks)
print("Updated Marks :  ",UpdatedMarks)
```

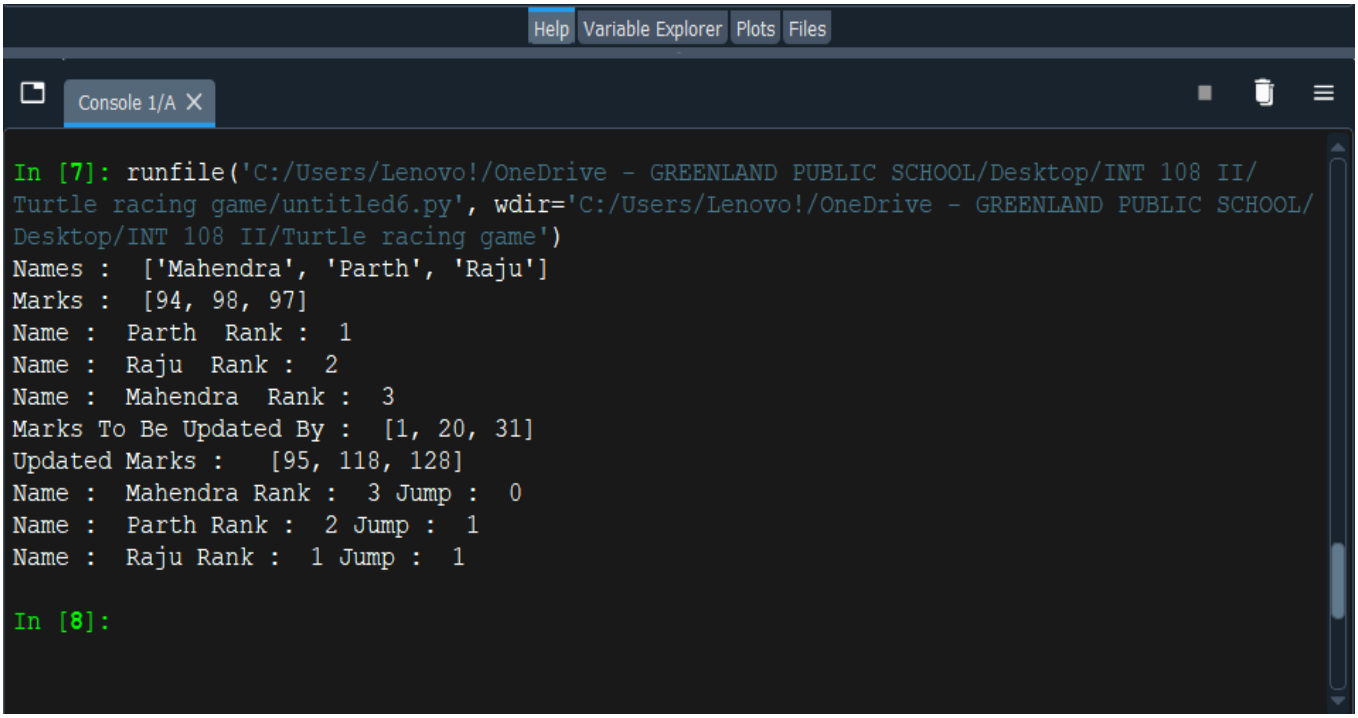
```
r2 = []
for i in range(len(UpdatedMarks)):
    r = len(UpdatedMarks)-i
    r2.append(r)
d3 = dict(zip(UpdatedMarks,r2))
l2 = []
for i in d3:
    l5 = (list(dicr.keys())[list(dicr.values()).index(i)],d3[i])
    l2.append(l5)
rankinorde = (l2[::-1])
st = dict(sorted(rankinorde))
for i in sr:
    print("Name : ",i,"Rank : ",st[i],"Jump : ",abs(st[i]-sr[i]))
```

SCREENSHOT OF THE CODE IMPLEMENTED:





OUTPUT:


Help
Variable Explorer
Plots
Files
Console 1/A
In [7]: runfile('C:/Users/Lenovo!/OneDrive - GREENLAND PUBLIC SCHOOL/Desktop/INT 108 II/Turtle racing game/untitled6.py', wdir='C:/Users/Lenovo!/OneDrive - GREENLAND PUBLIC SCHOOL/Desktop/INT 108 II/Turtle racing game')
Names : ['Mahendra', 'Parth', 'Raju']
Marks : [94, 98, 97]
Name : Parth Rank : 1
Name : Raju Rank : 2
Name : Mahendra Rank : 3
Marks To Be Updated By : [1, 20, 31]
Updated Marks : [95, 118, 128]
Name : Mahendra Rank : 3 Jump : 0
Name : Parth Rank : 2 Jump : 1
Name : Raju Rank : 1 Jump : 1
In [8]: