

ASSIGNMENT

NESTED DICTIONARY QUESTIONS

Use this dictionary

```
details = {
```

```
    "Anirudh": [56, 78, 65],
```

```
    "Sanjay": [58, 78, 56, 12, 33, 56, 78],
```

```
    "Muskan": [87, 78, 65, 45],
```

```
    "Nihar": [32, 78, 32, 98, 33],
```

```
    "Akshay": [56, 40],
```

```
}
```

Q1. Print all the marks of each student in a readable format.

Anirudh: 56, 78, 65

Sanjay: 58, 78, 56, 12, 33, 56, 78

Muskan: 87, 78, 65, 45

Nihar: 32, 78, 32, 98, 33

Akshay: 56, 40

Q2. Print the student name and their corresponding highest marks.

Anirudh: 78

Sanjay: 78

Muskan: 87

Nihar: 98

Akshay: 56

Q3. Find and print the student(s) with the highest individual score. If multiple students have the same highest score, print all their names.

The highest mark is 98, scored by Nihar.

Q4. Calculate and print the average marks of each student.

Anirudh: 66.33

Sanjay: 53.57

Muskan: 68.75

Nihar: 54.6

Akshay: 48.0

Q5. Print the name of the student who has the highest average marks.

The highest average marks are 68.75, scored by Muskan.

Q6. Print the total number of marks entries (i.e., the total number of marks given) for each student.

Anirudh: 3

Sanjay: 7

Muskan: 4

Nihar: 5

Akshay: 2

Q7. Identify and print the name(s) of the student(s) who have scored more than a specified number of marks (e.g., more than 75) in any subject.

Students who scored more than 75:

Anirudh: [78]

Sanjay: [78]

Muskan: [87, 78]

Nihar: [78, 98]

Use the dictionary below

```
details = {  
    "Anirudh": {  
        "age": 56,  
        "gender": "Male",  
        "marks": [3, 455, 64, 33],  
        "adult": True,  
    },  
    "Muskan": {  
        "age": 16,  
        "gender": "Female",
```

```
    "marks": [34, 89, 70, 99, 43],  
    "adult": False,  
  },  
  "Nihar": {  
    "age": 24,  
    "gender": "Male",  
    "marks": [99, 100],  
    "adult": True,  
  },  
}
```

Q8. Print the name and age of each student.

Anirudh: 56
Muskan: 16
Nihar: 24

Q9. Find and print the names of all students who are adults.

Q10. Calculate and print the average marks for each student.

Anirudh: 138.75
Muskan: 67.0
Nihar: 99.5

Q11. Print the name and highest mark of each student.

Anirudh: 455
Muskan: 99
Nihar: 100

Q12. Find and print the names of students with more than 3 marks entries.

Students with more than 3 marks:
Anirudh
Muskan

Q13. Print the total marks scored by each student.

Anirudh: 555
Muskan: 335
Nihar: 199

Q14. Print the name of the youngest student.

The youngest student is Muskan, age 16.

Q15. Find and print the name of the student with the highest average marks.

The student with the highest average marks is Nihar with an average of 99.5.