QUESTIONS 142-150 DICTIONARY ITERATION

Q142. Ask subject name and marks from the user and keep adding it to dictionary.

```
Enter the number of subjects: 4
Enter the subject name: Maths
Enter the marks for Maths: 22
Enter the subject name: English
Enter the marks for English: 98
Enter the subject name: Computer
Enter the marks for Computer: 87
Enter the subject name: Science
Enter the marks for Science: 66

# Output
{'Maths': 22.0, 'English': 98.0, 'Computer': 87.0, 'Science': 66.0}
```

Q143. Convert two lists into a dictionary. Make two list on your own of same length, and convert them to dictionary.

```
lst1 = ['Ten', 'Twenty', 'Thirty']
lst2 = [10, 20, 30]

# Output
{'Ten': 10, 'Twenty': 20, 'Thirty': 30}
```

Q144. Write a Python program to sum all the items in a dictionary.

Q145. Write a Python program to multiply all the items in a dictionary. **(Do on your own)**

Q146. Ask a string from user. Display the dictionary where each key is a character and value is the frequency of that character that comes in that string.

```
Enter a string: hello world

# Output
{'h': 1, 'e': 1, 'l': 3, 'o': 2, ' ': 1, 'w': 1, 'r': 1, 'd': 1}
```

Q147. Store “name” of a student as Key, “list of 5 marks” of that student as a Value. Store atleast 5 student names. Print the sum and percentage of all the students.

```
students_dict = {
    "Student1": [85, 90, 78, 92, 88],
    "Student2": [75, 88, 92, 80, 87],
    "Student3": [90, 95, 89, 78, 93],
    "Student4": [80, 85, 88, 92, 87],
    "Student5": [92, 88, 95, 90, 85]
}

# Output
Student1 - Sum: 433, Percentage: 86.60%
Student2 - Sum: 422, Percentage: 84.40%
Student3 - Sum: 445, Percentage: 89.00%
Student4 - Sum: 432, Percentage: 86.40%
Student5 - Sum: 450, Percentage: 90.00%
```

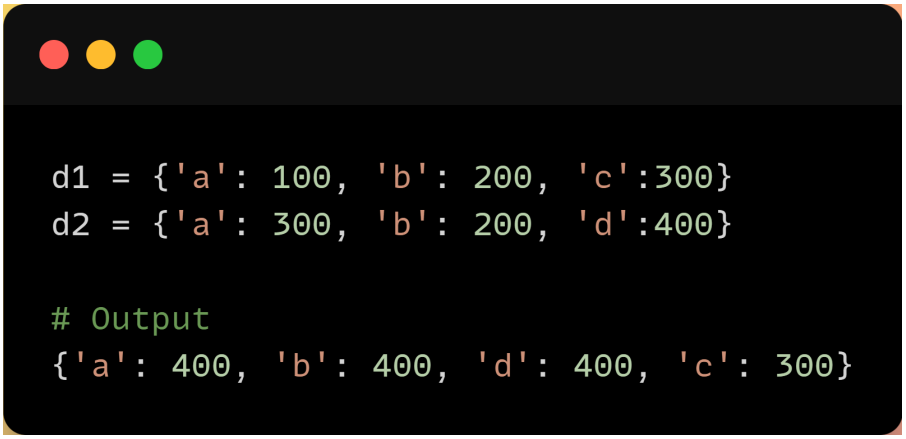
Q148. Store marks of 5 different subjects in a dictionary. Ask subject name as an input from the User. Print the marks of that subject entered by User. If subject does not exist, print “Invalid”.

```
subject_marks_dict = {
    "Math": 90,
    "English": 85,
    "Science": 92,
    "History": 88,
    "Computer Science": 95
}

# Example 1
Enter the subject name: Math
Marks for Math: 90

# Example 2
Enter the subject name: Math
Marks for Math: 90
```

Q149. Store name as a Key, and 5 marks in a List as a value in dictionary. Store details of at least 5 students. Print the name of the student who got highest marks.

```
students_data = {
    "Student1": [85, 90, 78, 92, 88],
    "Student2": [75, 88, 92, 80, 87],
    "Student3": [90, 95, 89, 78, 93],
    "Student4": [80, 85, 88, 92, 87],
    "Student5": [92, 88, 95, 90, 85]
}

# Output
Student with the highest marks: Student5
```

Q150. Write a Python program to combine two dictionary by adding values for common keys.



```
d1 = {'a': 100, 'b': 200, 'c':300}
d2 = {'a': 300, 'b': 200, 'd':400}

# Output
{'a': 400, 'b': 400, 'd': 400, 'c': 300}
```