1. Write a Python script to sort (ascending and descending) a dictionary by value.

d = {1: 2, 3: 4, 4: 3, 2: 1, 0: 0}

print(sorted(d.items()))

print(sorted(d.items(),reverse=True))

[(0, 0), (1, 2), (2, 1), (3, 4), (4, 3)]

[(4, 3), (3, 4), (2, 1), (1, 2), (0, 0)]

1. Write a Python script to add a key to a dictionary. [Go to the editor](https://www.w3resource.com/python-exercises/dictionary/#EDITOR)

SampleDictionary:{0:10,1:20}  
Expected Result : {0: 10, 1: 20, 2: 30}

SampleDictionary ={0: 10, 1: 20}

print(SampleDictionary)

SampleDictionary.update({2:30})

print(SampleDictionary)

{0: 10, 1: 20, 2: 30}

1. Write a Python script to merge two Python dictionaries

a={3:30,4:40}

b={5:50,6:60}

a.update(b)

print(a)

{3: 30, 4: 40, 5: 50, 6: 60}

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

xyz={'a':400,'b':400,'d':400,'c':300}

sum(xyz.values())

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1. Write a Python program to combine two dictionary adding values for common keys.   
   d1 = {'a': 100, 'b': 200, 'c':300}  
   d2 = {'a': 300, 'b': 200, 'd':400}  
   Sample output: Counter({'a': 400, 'b': 400, 'd': 400, 'c': 300})

d1 = {'a': 100, 'b': 200, 'c':300}

d2 = {'a': 300, 'b': 200, 'd':400}

d=Counter(d1)+Counter(d2)

print(d)

1. Select the all correct way to remove the key ‘marks‘ from a dictionary

student = {

"name": "Emma", "class": 9, "marks": 75 }

1. **student.pop(“marks”)**
2. **del student[“marks”]**
3. **student.popitem()**
4. **dict1.remove(“key2”)**

1. Write a Python program to count number of items in a dictionary value that is a list.

a={"sun":['moon','mars','earth']}

print(len(a["sun"]))

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