Dictionary functions and methods

Function/ Method	Description	Example	Output
d.pop(k)	Removes an element with key k from dictionary d and returns the value	dict1 = {1:78, 2:92, 3:92, 4:89} print(dict1.pop(2)) print(dict1)	92 {1: 78, 3: 92, 4: 89}
d.popitem(k)	Removes an arbitrary element from dictionary d and returns the element (key, value)	dict1 = {1:78, 2:92, 3:92, 4:89} print(dict1.popitem()) print(dict1)	(4, 89) {1: 78, 2: 92, 3: 92}
max(d)	Returns the maximum key from dictionary d	dict1 = {1:78, 2:92, 3:92, 4:89} print(max(dict1))	4
min(d)	Returns the minimum key from dictionary d	dict1 = {1:78, 2:92, 3:92, 4:89} print(min(dict1))	1
sum(d)	Adds all the keys of the numeric data type of dictionary d	dict1 = {1:78, 2:92, 3:92, 4:89} print(sum(dict1))	10
len(d)	Returns length of dictionary d	dict1 = {1:78, 2:92, 3:92, 4:89} print(len(dict1))	4
str(d)	Produces a printable string representation of dictionary d	dict1 = {1:78, 2:92, 3:92, 4:89} string1=(str(dict1)) print(string1) print(type(string1))	{1: 78, 2: 92, 3: 92, 4: 89} <class 'str'>
d.clear()	Removes all items from dictionary d	dict1 = {1:78, 2:92, 3:92, 4:89} dict1.clear() print(dict1)	{}
d.get(k)	Returns the value for the key k if k is in the dictionary d or None if k is not in the dictionary	dict1 = {1:78, 2:92, 3:92, 4:89} print(dict1.get(3)) print(dict1.get(6))	92 None
d.copy()	Returns a copy of dictionary d	dict1 = {1:78, 2:92, 3:92, 4:89} dict2 = dict1.copy() print(dict2)	{1: 78, 2: 92, 3: 92, 4: 89}
d.values()	Returns a list of all value from dictionary d	dict1 = {1:78, 2:92, 3:92, 4:89} print(dict1.values())	dict_values([78, 92, 92, 89])
d.update(e)	Update dictionary d by adding the elements from dictionary e	dict1 = {1:78, 3:92, 2:92, 4:89} dict2 = {10:90, 11:94} dict1.update(dict2) print(dict1)	{1: 78, 3: 92, 2: 92, 4: 89, 10: 90, 11: 94}
d.setdefault(k)	Returns the value of key k if k is in the dictionary or inserts the key with a None value to the dictionary d if k is not in	dict1 = {1:78, 3:92, 2:92, 4:89} print(dict1.setdefault(3)) dict1.setdefault(5) print(dict1)	92 {1: 78, 3: 92, 2: 92, 4: 89, 5: None}

	the dictionary		
dict.fromkeys(s,v)	Creates a new dictionary with keys from sequence s and set values to v, if v is not specified set None as values	slno = [10, 20, 30, 40] dict1 = dict.fromkeys(slno) dict2 = dict.fromkeys(slno, 5) print(dict1) print(dict2)	{10: None, 20: None, 30: None, 40: None} {10: 5, 20: 5, 30: 5, 40: 5}