

HOW TO ADD NEW MANY ELEMENTS TO

A DICTIONARY

1) Using the UPDATE METHOD (update ())
The update () method is a convenient way to add key-value pairs from another dictionary or an iterable of key-value pairs to an existing dictionary.

Python Code

```
my_dict = {} # creates an empty dict.
# Dictionary containing elements to add
elements_to_add = {"apple": "fruit", "banana": "fruit", "vegetable": "vegetable"}
```

```
# Add elements from elements_to_add to my_dict
my_dict.update(elements_to_add)
```

```
print(my_dict)
```

```
# The code will output: {'apple': 'fruit', 'banana': 'fruit', 'vegetable': 'vegetable'}
```

2) Using the Dictionary Mapping operator [**]

The dictionary updating operator (**) allows you to unpack key-value pairs from another dictionary into an existing one.

Python Code

```
my_dict = {}
elements_to_add = {"apple": "fruit", "banana": "fruit"}
# Combine my_dict and elements_to_add into a new dictionary
my_dict = {**my_dict, **elements_to_add}
```

```
print(my_dict)
```

```
Output: {'apple': 'fruit', 'banana': 'fruit'}
```

Success has no parallel for failure do you want to fail like it?

Remarks

- If you have a separate dictionary containing elements you want to add.
- ~~update()~~ `update()` is generally a good choice.
- If you want to create a new dictionary by combining an existing one with another dictionary - the unpacking operator might be more efficient.

HOW TO DELETE VERY MANY ITEMS FROM THE DICTIONARY AT ONCE.

1) USING CLEAR METHOD (`clear()` method)

The `clear` method is the most efficient way to delete all Key-Value pairs from a dictionary. its simple and straight method.

Python Code

```
my_dict = {"apple": "fruit", "banana": "fruit", "Carrot": "Vegetable"}
```

```
# Remove all elements
```

```
my_dict.clear()
```

```
print(my_dict) # output: {} [empty dictionary]
```

2) Looping and Deleting with Conditions

If you want to delete specific items based on certain Criteria, you can iterate through the dictionary and remove Keys using either `pop()` or `del`.

Python Code.

```
my_dict = {"apple": "fruit", "banana": "fruit", "Carrot": "Vegetable"}
```

```
# Delete items with Keys starting with letter a.
```

```
for key in list(my_dict.keys()): # It creates
```

Keys in list to avoid modifying while iterating

if key starts with ("a"):
del my_dict[key]
print(my_dict)

HOW TO FIND ELEMENTS THAT EXIST UNDER A DICTIONARY

1) USING THE (in) operator

The in operator allows you to check if a specific key exists in the dictionary. It returns True if the key is present, and False otherwise.

Python Code Example:
my_dict = {"apple": "fruit", "banana": "fruit", "Carrot": "Vegetable"}
check if "apple" exists as a key
if "apple" in my_dict:
 print("Key 'apple' exists")
else:
 print("Key 'apple' doesn't exist")