## Dictionaries:

- · A Python dictionary is written as a sequence of key/value pairs separated by commas. These pairs are called entries.
- · The entire sequence of entries is enclosed in curly braces ({and}, A colon (:) separates a key and of ite value its value.

phonebook: { "udaya": "9791113940"; "Gowtham": "9003273969"; personal - information: { "Name": "Kamesh", "Age": 20}

Adding keys and Replacing Values · Add a new key/value pair to a dictionary by using the subscript operator [] < a dictionary > [< a keys >] = < a value) To create a new empty dictionary and add two new embries

info["name"] = "Sandy" info["occupation"] = "Manager" info

E'name: 'Sandy', 'occupation': 'Manager'?
The subscript is also used to replace a value of an existing key. info ["occupation"] = "Peveloper"

{ 'name': 'Sandy', 'occupation': 'Developer'}

· The subscript operator [] is used to obtain a value associated with a key. Accessing Values

· However, if the key is not present in the dictionary, Python vaises an exception. info["job"] info["name"] Traceback (most recent call last) Key Error <ipython-input-6-fbe3dde504127in <module>() 'Sandy' \_\_\_\_> 1 info["job"] Key Error! 'job' Search Stack Overflow Removing Keys · To delete an entry from a dictionary, one removes its key using the method pop. · This method expects a key and an optional deflace défault value as arguments. • If the key is in the dictionary, it is removed, and its associated value is returned. Otherwise, the default value is returned. [7] print (info.pop("job"; None)) print (info. pop ("compation")) pereloper Traversing a Dictionary

· When a for loop is used with a dictionary, the loops variable is bound to each key in an unspecified order.

• The code segment prints all of the keys and their values.

(b) for key in info: print (key, info[key])

Er name Soundy

D grades = {90: 12,80: 18,70: 63} list (grades. items()) [(90, 'A'), (80, 'B'), (70, 'C')]

D for (key, value) in grades. items ():
print (key, value)

90 A
80 B
70 C

## Dictionary Operations

Operator or Function	what it does
len (d)	Returns the number of entries in d.
d [key]	Used for inserting a new key, replacing a value or obtaining a value or obtaining a value at an existing key.
d. clear	Removes all the keys
list (d. keys ())	Returns a list of the keys
list (d-values ())	Returns a list of the values.
list (d. itenus())	Returns a list of tuples containing the kins and values for each entry
For key ind:	key is bound to each key in d'in our unspeufied to order.

this dict = {

"name": "Rakesh",

"Native": "Chennai";

"year": 2001

```
#this dict
print ("1, print the dictionary: \n", this dict)
 print ("|n2. return the number of entries in Hisdict: ", len (Husdict))
 print (" \n3. Return the list of the keys", this dict. keys ())
print ("(n4. Return the list of the value," this dict. values ())
#14cms
print("In5. Return the list of the tuples containing keys and values;
this dict, items())
#copy()
print("[n6-Returns a copy of the dictionary", thisdict. copy())
#pop()
print ("In7. Removes the element with the specified key: ", this diet. pop
("year"))
# get ()
print ("\n8. Removes the element with the specified key: ", this dict. get ("name"))
#set default
print ("\n9. Returns the value of the specified key:", this dict. set default ("name"))
#pop ikm
print ("\n10. The removed item is the return value of the popitum () method, as a tuple:", this dict. popitum ())
 #updak
thisdict. update ({ "color": "Black"})
print ("\n11.", thisdict)
 print ("\n12. Remove all keys", this dict. clear ())
```