Ex.No: 5b	OPERATIONS OF DICTIONARY
Date :	

AIM:

To write a python program to evaluate the operations of dictionary.

ALGORITHM:

1. Start the program.
2. Create items in dictionary
3. Create items in dictionary.
4. Prints keys and values in dictionary.
5. Updates the values in dictionary.
6. Deleting the value from the dictionary.
7. Using get method to access dictionary.
8. Using pop method to delete element in the dictionary.
9. Using has_key method to delete element in dictionary.
10. Checks whether the particular key is present in the dictionary or not.
11. Stop the program.

Program:

```
dict={'chassis':{1:'frames',2:'suspension system',3:'wheels',
4:'axles'},'engine':{1:'internal combustion engine',2:'ignition engine'},'transmission
system':{1:'clutch',2:'gearbox',3:'propeller shaft'}} print("\n\nDictionary key and
values")
print(dict.keys()) print(dict.values()) print("\n\nAccessing Dictionary-
print the attribute from nested dictionary") print(dict['chassis'][1])
print("\n\nUpdating the values in dictionary")
dict['chassis'][4]='live axles' print(dict.values())
print("\n\ndeleting from a dictionary") del
[dict['transmission system'][3]] print(dict.values())
print("\n\nAdding values into dictionary")
dict['transmission system'][4]='Differential'
print(dict.values()) print("\n\nUsing get method to access
dicitonary") print(dict.get('chassis')) print("\n\nusing pop
method to delete element in dictionary") dict.pop('engine')
print(dict.values()) print("\n\nusing has_key mehod to
check dictionary keys")
print("Is chasis is key present in dictionary?")
print(dict.has_key('chassis'))
print("Is engine is key present in dictionary?")
print(dict.has_key('engine'))
```

OUTPUT:

Dictionary key and values dict_keys(['chassis',

'engine', 'transmission system'])

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'axles'}, {1: 'internal

combustion engine', 2: 'ignition engine'}, {1: 'clutch', 2: 'gearbox', 3: 'propeller shaft'}])

Accessing Dictionary- print the attribute from nested dictionary frames

Updating the values in dictionary

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}, {1: 'internal

combustion engine', 2: 'ignition engine'}, {1: 'clutch', 2: 'gearbox', 3: 'propeller shaft'}])

deleting from a dictionary

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}, {1:

'internal combustion engine', 2: 'ignition engine'}, {1: 'clutch', 2: 'gearbox'}]) Adding

values into dictionary

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}, {1: 'internal combustion engine', 2: 'ignition engine'}, {1: 'clutch', 2: 'gearbox', 4: 'Differential'}]) Using get method to access dicitonary

{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}

using pop method to delete element in dictionary

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}, {1: 'clutch', 2: 'gearbox', 4: 'Differential'}]) using has_key mehod

to check dictionary keys Dictionary key and

values dict_keys(['chassis', 'engine', 'transmission

system'])

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'axles'}, {1: 'internal

combustion engine', 2: 'ignition engine'}, {1: 'clutch', 2: 'gearbox', 3: 'propeller shaft'}])

Accessing Dictionary- print the attribute from nested dictionary frames

Updating the values in dictionary

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}, {1: 'internal

combustion engine', 2: 'ignition engine'}, {1: 'clutch', 2: 'gearbox', 3: 'propeller shaft'}])

deleting from a dictionary

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}, {1:

'internal combustion engine', 2: 'ignition engine'}, {1: 'clutch', 2: 'gearbox'}]) Adding

values into dictionary

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}, {1: 'internal combustion engine', 2: 'ignition engine'}, {1: 'clutch', 2: 'gearbox', 4: 'Differential'}])

Using get method to access dicitonary

{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}

using pop method to delete element in dictionary

dict_values([{1: 'frames', 2: 'suspension system', 3: 'wheels', 4: 'live axles'}, {1: 'clutch', 2:

'gearbox', 4: 'Differential'}]) using has_key

mehod to check dictionary keys

Is chasis is key present in dictionary?

RESULT:

Thus the python program to evaluate the operations of dictionary is evaluated.