Exercise: 9

Date: 20/11/2020

AIM:

Fill the missing words.

PROGRAM:

```
print('\n—dictionaries')   #Output: -- dictionaries

d = {'a': 1, 'b': 2}
print(d['a'])   #Output: 1
del d['a']

# iterate
d = {'a': 1, 'b': 2}
for key, value in d.items():
    print(key, ':', value)
for key in d:
    print(key, d[key])
```

 # d.fromkeys(iterable[,value=None]) -> dict: with keys from iterable and all same value

d = d.fromkeys(['a', 'b'], 1)

print(d) #Output: {'a': 1, 'b': 1}

 # d.clear() -> removes all items from d

d = {'a': 1, 'b': 2}

d.clear()

print(d) #Output: {}

 # d.items() -> list: copy of d's list of (key, item) pairs

d= {'a': 1, 'b': 2}

print(d.items()) #Output: [('a', 1), ('b', 2)]

 # d.keys() -> list: copy of d's list of keys

d= {'a': 1, 'b': 2}

print(d.keys()) #Output: ['a', 'b']

 # d.values() -> list: copy of d's list of values

d= {'a': 1, 'b': 2}

print(d.values()) #Output: [1, 2]

 # d.get(key,defval) -> value: d[key] if key in d, else defval

d= {‘a’: 1, ‘b’: 2}

print(d.get(“c”, 3))   #Output: 3

print(d)   #Output: {‘a’: 1, ‘b’: 2}

 # d.setdefault(key[,defval=None]) -> value: if key not in d set d[key]=defval, return d[key]

D = {‘a’: 1, ‘b’: 2}

print(‘d.setdefault(“c”, []) returns ‘ + str(d.setdefault(“c”, 3)) + ‘ d is now ‘ + str(d))

#Output: d.setdefault(“c”, []) returns 3 d is now {‘a’: 1, ‘b’: 2, ‘c’: 3}

#d.pop(key[,defval]) -> value: del key and returns the corresponding value. If key is not found, defval is returned if given, otherwise KeyError is raised

d= {‘a’: 1, ‘b’: 2}

print(‘d.pop(“b”, 3) returns ‘ + str(d.pop(“b”, 3)) + ‘ d is now ‘ + str(d))

#Output: d.pop(“b”, 3) returns 2 d is now {‘a’: 1}

print(‘d.pop(“c”, 3) returns ‘ + str(d.pop(“c”, 3)) + ‘ d is still ‘ + str(d))

#Output: d.pop(“c”, 3) returns 3 d is still {‘a’: 1}

 # sort on values

import operator

x = {1: 4, 5: 4, 4: 4}

sorted_x = sorted(x.items(), key=operator.itemgetter(1), reverse=True)

#Output: print(‘sorted(x.items(), key=operator.itemgetter(1)) sorts on values ‘ + str(sorted_x))

 # max of values

d = {‘a’:1000, ‘b’:3000, ‘c’: 100}

print(‘key of max value is ‘ + max(d.keys(), key=(lambda key: d[key])))

#Output: key of max value is b

RESULT:

The program has been successfully verified.