

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.