

Dictionary

Q1 Explain the following functions in reference to dictionary.

- a. Items()
- b. Keys()
- c. Values()

Ans a. items()- this method returns the content of dictionary as a list of tuples having key-value pairs.

b. keys()-it returns the list of key values in dictionary.

c. values()- it returns the list of values from dictionary.

Q2 Write the output of the following:

```
A={1:10,2:20,3:30}
```

```
B={3:35,4:40}
```

```
print(a.items())
```

```
print(a.keys())
```

```
print(a.values())
```

Ans:

```
dict_items([(1,10),(2,20),(3,30)])
```

```
dict_keys([1,2,3])
```

```
dict_values([10,20,30])
```

Q3 write a program to store details like book number,author name and price in dictionary.

Ans b={}

```
N=int(input("enter number of records to enter"))
```

```
for i in range(N):
```

```
    bno=int(input("enter book number"))
```

```
    bn=input("enter author name")
```

```
    pr=int(input("enter price"))
```

```
    t=(bn,pr)
```

```
    b[bno]=t
```

print(b)

Q4 To delete an element from dictionary , we can use either _____statement of _____method.

Ans del,pop()

Q5 What is the difference between list and dictionary?

Ans

List	Dictionary
Elements are enclosed in square brackets	Elements are enclosed in curly braces
Index value is an integer only	key value can be of immutable type
L=[1,2,3,5]	D={1:'a',2:'b'}

Q6 Why list can not be used as keys in dictionary.

Ans because list are mutable

Q7 a={1:10,2.5:20,3:30,4:40,5:50}

Find errors in the following and write the correct statement.

1. a(6)=60
2. a.len()
3. a.clears()
4. a.gets(3)
5. a.item()
6. a.values()
7. a.keys()
8. a.del(4)
9. pop(4)

Ans

1. a[6]=60
2. len(a)
3. a.clear()
4. a.get(3)
5. a.items
6. a.values()
7. a.keys()
8. del a[4]
9. a.pop(4)

Q8 d1={1:'one',2:'two',3:'three'}

 d2={5:'five',6:'six'}

write the code of the following, in reference to the above dictionary

- a. write a for loop to print only keys of d1

Ans

```
for i in d1:  
    print(i)
```

- b. write a for loop to print only values of d1

Ans

```
for i in d1:  
    print(d1[i])
```

- c. write a for loop to print both keys and values of d1 in the following format.

1----one

2----two

Ans

```
for i in d1:  
    print(i,"-----", a[i])
```

- d. add one more pair(4: "four") in d1

Ans

```
d1[4]="four"
```

- e. modify the value of key 2. (make it "too" in place "two")

Ans d1[2]='too'

- f. merge d1 and d2 in d1.

Ans d1.update(d2)

Q9 What do you mean by update() function in dictionary?

Ans update() function is used to merge two dictionaries into one dictionary.

Q10 Write the output of the following code:

```
a={1:10,2:20,3:30}
```

```
b={3:35,4:40}
```

```
b[5]=50
```

```
b[4]=45
```

```
print(a)
```

```
print(b)
```

```
a.update(b)
```

```
print(a)
```

```
print(b)
```

Ans

```
{1:10,2:20,3:30}
```

```
{3:35,4:40}
```

```
{1:10,2:20,3:35,4:40}
```

```
{3:35,4:40}
```

Q11 what is the difference between del command and pop() function in context of dictionary?

Ans pop() method return the deleted element while del statement does not return the deleted element.

Q12

```
a={1:10,2:20,3:30}
```

1. write code to delete the second element using del command.
2. Write code to delete the third element using pop() function

Ans

1. del a[2]
2. a.pop(3)

Q13 Write the output of the following code:

```
a={1:10,2:20,3:30}
```

```
b={3:35,4:40}
```

```
print(1 in a)          # o/p true
```

```
print(3 in b)          # o/p true
```

```
print(4 in a)          # o/p false
```

```
print(max(a))          # o/p 3
```

```
print(min(a))          # o/p 1
```

```
print(max(b))          # o/p 4
```

```
print(min(b))          # o/p 3
```

```
print(sum(a))          # o/p 6
```

```
print(sum(b))      # o/p 7
print(len(b))      # o/p 2
print(len(a))      # o/p 3
```

Q14 what do you mean by clear() function in reference to dictionary?

Ans clear() function removes all the elements from dictionary

Q15 get() method returns the key or a value in dictionary

Ans get() method returns a value for the given key

Q16 get() method returns _____, if key does not exist in dictionary.

Ans none

Q17 get() method takes the key or value as argument

Ans key

Q18 Name a function which is used to create an empty dictionary.

Ans dict()

Q19 what empty curly braces({}) shows in python?

Ans curly braces shows empty dictionary in python.