



Dictionary

1 Mark Questions (Answer in one line each)

1. What is a dictionary in Python?
2. How is a key different from a value in a dictionary?
3. Write one example of creating an empty dictionary.
4. What will be the output of the following code?
5. `d = {'a':1, 'b':2, 'a':3}`
6. `print(d)`
7. Name any two dictionary methods used to access all keys or all values.

2 Marks Questions

6. Differentiate between dictionary and list with an example.
7. What will be the output of the following code?
`d = {'x':10, 'y':20, 'z':30}`
`print(len(d))`
`print('a' in d)`
8. `d = {'x':10, 'y':20, 'z':30}`
9. `print(len(d))`
10. `print('a' in d)`
11. Write a Python statement to:
 - a) Add a new key–value pair 'city':'Delhi' in dictionary info.
 - b) Delete the key 'age' from dictionary info.
12. What is the purpose of the `get()` method in a dictionary? Give an example.
13. Explain the use of the `items()` method with a short code snippet.

3 Marks Questions

11. Write a program to count the frequency of each character in a given string using a dictionary.
12. Consider the dictionary `student = {'name':'Ravi', 'age':17, 'marks':85}`.
Write Python statements to:
 - a) Display all keys.
 - b) Display all values.
 - c) Update marks to 90.
13. Write a program to find the key having the maximum value in the dictionary `sales = {'A':1200, 'B':2300, 'C':1800}`.
14. Explain any three dictionary methods with examples.
15. Write a program to merge two dictionaries and display the combined dictionary.