Class Exercise:

Dictionary exercises

1. Write a Python program to add a key to a dictionary.

Sample Output:

{0: 10, 1: 20}

{0: 10, 1: 20, 2: 30}

2. Merge two dictionaries into a new dictionary.

Input:

dict1 = {'name': 'John', 'age': 25}

dict2 = {'city': 'New York', 'country': 'USA'}

3. Find the key with the maximum value in a dictionary.

Input:

my\_dict = {'apple': 10, 'banana': 5, 'orange': 8}

4. Create a dictionary from two lists, one for keys and another for values.

Input:

keys = ['name', 'age', 'city']

values = ['John', 25, 'New York']

5. Access the value of a specific key in a dictionary.

Input:

my\_dict = {'name': 'John', 'age': 25, 'city': 'New York'}

6. Clear all key-value pairs from a dictionary.

Input:

my\_dict = {'name': 'John', 'age': 25, 'city': 'New York'}

7. Iterate over key-value pairs in a dictionary.

Input: my\_dict = {'name': 'John', 'age': 25, 'city': 'New York'}

8. Write a Python program to check if multiple keys exist in a dictionary.

Input:

student = {

'name': 'Alex',

'class': 'V',

'roll\_id': '2'

}

Sample Output:

True

False

True

9. Write a Python program to access dictionary key's element by index.

Input:

num = {'physics': 80, 'math': 90, 'chemistry': 86}

Sample Output:

physics

math

chemistry

10. Write a Python program to change Brad’s salary to 8500 in the following dictionary.

Input:

sample\_dict = {

'emp1': {'name': 'Jhon', 'salary': 7500},

'emp2': {'name': 'Emma', 'salary': 8000},

'emp3': {'name': 'Brad', 'salary': 500}

}

Sample Output: {

'emp1': {'name': 'Jhon', 'salary': 7500},

'emp2': {'name': 'Emma', 'salary': 8000},

'emp3': {'name': 'Brad', 'salary': 8500}

}