```
1. Write a program to create three dictionaries and concatenate them to create fourth
 1
     dictionary.
 2
     INPUT
    dict1 = {'a': 1, 'b': 2}
    dict2 = \{'c': 3, 'd': 4\}
 4
    dict3 = \{'e': 5, 'f': 6\}
    dict4 = {**dict1, **dict2, **dict3}
7
    print("Concatenated dictionary:", dict4)
8
    OUTPUT
     Concatenated dictionary: {'a': 1, 'b': 2, 'c': 3, 'd': 4, 'e': 5, 'f': 6}
9
10
11
    2. Write a program to check whether a dictionary is empty or not.
12 INPUT
13 dictionary = {}
14
    if not dictionary:
15
        print("Dictionary is empty")
16
    else:
17
        print("Dictionary is not empty")
18
    OUTPUT
19
    Dictionary is empty
20
21
    3. Create a dictionary with dept no, employee roll no. and salary. Find out department
    wise min and maximum of salary.
22
    INPUT
23
     employees = {
         101: {'name': 'Alice', 'salary': 50000},
24
25
         102: {'name': 'Bob', 'salary': 60000},
26
         103: {'name': 'Charlie', 'salary': 70000},
27
28
    salaries = [emp['salary'] for emp in employees.values()]
29
    print("Minimum salary:", min(salaries))
    print("Maximum salary:", max(salaries))
30
31
    OUTPUT
32
   Minimum salary: 50000
33
    Maximum salary: 70000
34
35
   4. Write a program that reads a string from the keyboard and creates dictionary
    containing frequency of each character occurring in the string.
36
    INPUT
     string = input("Enter a string: ")
37
    frequency = {}
38
39
    for char in string:
40
         frequency[char] = frequency.get(char, 0) + 1
41 print("Character frequency:", frequency)
42
    OUTPUT
43 Enter a string: hello
    Character frequency: {'h': 1, 'e': 1, 'l': 2, 'o': 1}
44
45
46
    5. Create two dictionaries - one containing grocery items and their prices and another
     containing grocery items and quantity purchased. By using the values from these two
    dictionaries compute the total bill.
47
    INPUT
    prices = {'apple': 100, 'banana': 50, 'cherry': 200}
48
    quantities = {'apple': 2, 'banana': 4, 'cherry': 1}
49
50
    total bill = sum(prices[item] * quantities[item] for item in prices)
51
    print("Total bill:", total bill)
52
    OUTPUT
53 Total bill: 500
```