

1. Write a Python script to add a key to a dictionary?

Sample Dictionary : {'Name': 'Dhoni', 'Experience': 20}

Expected Result : {'Name': 'Dhoni', 'Experience': 20, 'Game': 'Cricket'}

2. Write a Python script to concatenate following dictionaries to create a new dictionary called 'result'?

```
d1={'Name':'Guru', 'Class':'Second'}
```

```
d2={'Mark1':80, 'Mark2':70}
```

```
d3={'Mark3':90, 'Mark4':60}
```

3. How do you check whether a given key is already present in the dictionary or not?

```
d1={'Name':'Guru', 'Class':'Second'}
```

Check the 'Name' is present or not?

4. Write a program to iterate over dictionaries using for loops? Use the below dictionary:

```
player = {'Name': 'Dhoni', 'Experience': 20, 'Game': 'Cricket'}
```

Expected output:

```
Name-->Dhoni
```

```
Experience-->20
```

```
Game-->Cricket
```

5. Write a script to generate and print a dictionary that contains a number (between 1 and n) in the form (number, number*number).

Steps to be followed:

Obtain the input number from the user.

When the user provides 5, create a dictionary as below:

```
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25} (expected result)
```

6. Write a program to merge 2 dictionaries?

```
d1 = {'a': 'what', 'b': ' you '}
```

```
d2 = {'x': 'doing', 'y': ' now?'}
```

Expected result:

```
{'a': 'what', 'b': ' you ', 'x': 'doing', 'y': ' now?'}
```

7. How do you obtain sum of all the marks in the below dictionary.

Sample dictionary:

```
marks = {'m1':80, 'm2':79, 'm3':90, 'm4': 98, 'm5':86}
```

Expected output:

433 marks

8. How to remove a key from a dictionary?

Sample dictionary:

```
marks = {'m1':80, 'm2':79, 'm3':90, 'm4': 98, 'm5':86} # remove the key 'm3'
```

Expected result:

```
marks = {'m1':80, 'm2':79, 'm4': 98, 'm5':86}
```

9. Demonstate the difference between pop() and popitem() with the below dictionary?

```
marks = {'m1':80, 'm2':79, 'm3':90, 'm4': 98, 'm5':86}
```

10. How to sort the below dictionary based on its key?

```
player = {'Name': 'Dhoni', 'Experience': 20, 'Game': 'Cricket'}
```

Expected output:

Experience 20

Game Cricket

Name Dhoni

11. Write a script to achieve the below:

```
player = {'Name': 'Dhoni', 'Experience': 20, 'Game': 'Cricket'}
```

Expected outcome:

Name is Dhoni

Experience is 20

Game is Cricket

12. How to find minimum and maximum values in the below dictionary?

```
my_dict = {'x':500, 'y':5874, 'z': 560, 'a':600, 'b':680}
```

13. How to create a dictionary from the below lists?

```
a = ['Name', 'Class', 'Mark']
```

```
b = None
```

Expected result:

```
{'Name':None, 'Class':None, 'Mark':None}
```

14. Use list comprehension to obtain a list having squared numbers for 1 to 10?

15. Use list comprehension to obtain a list having squared numbers for 1 to 15, if the number is divisible by 2?