

**MANAV RACHNA UNIVERSITY, FARIDABAD**

**Department of Computer Science and Technology**

**Course: B.Tech(CSE) Semester:IV Subject: Programming for Problem Solving using Python(CSW208B) Session: 2020-21**

***Lab 6:*** *Operation on dictionary : hands-on practice*

***Learning Outcome CO1*:** *Student will be able to implement concepts of Dictionary in Python*

***Blooms Taxonomy Level****: BT1, BT2*, *BT3*

**Dictionary**

1. Create an empty dictionary
2. Create the following dictionary
   1. Key value
   2. A 10
   3. B 20
3. Create a dictionary with different datatypes for keys
4. Print all the items of a dictionary
5. Delete an element of a dictionary
6. Delete full dictionary
7. Print a value for a key
8. To check if a key id present in a dictionary
9. Update a value of a key
10. Add a new key value pair
11. Print dictionary for keys{1,10} and values as square of keys
12. Print nested dictionary
13. Concatenate three dictionaries

Sample Dictionary :  
dic1={1:10, 2:20}  
dic2={3:30, 4:40}  
dic3={5:50,6:60}  
Expected Result : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

1. Sum all the values of a dictionary
2. Accessing an element of a nested dictionary
3. Write a Python script to print a dictionary where the keys are numbers between 1 and 15 (both included) and the values are square of keys.

Sample Dictionary  
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144, 13: 169, 14: 196, 15: 225}

1. Insert factorial of keys in values. And print dictionary