**BCSG 0800: PYTHON PROGRAMMING LAB LEVEL- 02**

**B.TECH. I-Year, Semester-II**

**DICTIONARY**

**Practice Questions**

1. Python Program to iterate over a string and use a dictionary to keep track of the frequency(count) of each letter or digit in string. Consider the below example.

S={'Number':Frequency, 'a':2, 'c':2}

1. The Chef wants to create a dictionary. But he needs your help as he doesn't want a normal dictionary, he wants a dictionary which contains all the permutations of a given word.
   1. So to help him you must create a program to do so. (Do not use built in functions)
      1. Input: the
      2. Output:
      3. e h t
      4. e t h
      5. h e t
      6. h t e
      7. t e h
      8. t h e
2. Program in python to rotate the values of a dictionary.
   * 1. Input :- {34: 'apple', 65: 'ball', 32: 'cat', 78: 'dog'}
     2. Output :- {34: 'dog', 65: 'apple', 32: 'ball', 78: 'cat'}
3. Program to find biggest value in python dictionary.
   1. Input: { '1': {'a': '0.6', 'b': '0.8', 'c': '2','d': '0.5'},
      * 1. '2': {'a': '0.7', 'b': '0.9', 'c': '0.1','d': '0.2'},
        2. '3': {'a': '0.5', 'b': '0.8', 'c': '3'},
      1. }
   2. Output: ('2','a','0.7') ('2',b','0.9') ('3','c', '3') ('1','d', '0.5')
4. Program to print **‘YES’** if palindrome of all the items in a set S1 is present in set S2.

I/p: S1 = {‘aba’, ‘rac’, ‘naman’, ‘civic’, ‘pullup’}

S2 = {, ‘naman’ ,‘aba’, ‘civic’, ‘rac’, ‘pullup’}

O/p: YES

1. Program to print Frequency of all letters present in a string.

I/p: st = “parrot”

O/p: dic = {‘a’:1, ‘r’:2, ‘p’:1, ‘o’:1, ‘t’:1}

1. Python Program to Invert a Dictionary.

I/p: dic = {‘a’:1, ‘r’:2, ‘p’:1, ‘o’:1, ‘t’:1}

O/p: dic = {1: [‘a’, ‘p’, ’o’, ’t’], 2: [‘r’]}

1. Program to convert a polynomial list to a polynomial dictionary.

(Polynomial 🡪 -2 + y2 + 3y6)

I/p: L= [-2,0,1,0,0,0,3]

O/p: P = {0:-2, 2:1, 6:3}