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

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

**SETS**

**Practice Questions**

1. Program to find all elements of a set2 which are not present in set1 using Set Comprehension.

Input : s1 = {1,2,3} s2 = {2,1,5,6,}

Output :{1, 2}

1. Program to get all subsets of given size of a set

Input : {1, 2, 3}, n = 2

Output : [{1, 2}, {1, 3}, {2, 3}]

1. Program to find minimum no of moves to swap the elements.

Here N is no of elements in a set.

Input: N=4, S={3,2,1,4}

Output: 2

1. Python program to find the decimal of all the items in given set after flipping the bits (firstly convert decimal to binary) .

I/p: s = {1,2,3}

O/p: {6,5,4}

1. Program to create a set whose are the multiple of **x** and present in **set1** and **set2** but not n both sets. Here **x**  is any positive integer entered by user.

I/P : x=2

set1={4,7,10,5,1} set2 = {4,10,2,6,1,9}

O/p: {2,6}

1. Program to check the elements of entered string are present in the items of the entered set. Also print the elements.

I/p: X = ‘ab’ S={‘ab’, ‘bc’, ‘pqr’, ‘bcad’}

O/p: YES, {‘ab’, ‘bcad’}

1. Program to count the words consist duplicate letters in a given set. Also remove or discard those elements from a given set which consist duplicate letter.

I/p: S={‘Have’, ‘a’, ‘good’, ‘day’}

O/p: 3

S={‘Have’, ‘a’, ‘day’}

1. *Entered a set (****S)*** *of list. Where list consist integer numbers.*

Write a program to print a set **(S)** having those items (list of integers) whose sum of integers

Is always less then sum of integers of the next item in a set.

I/p: S={[1,2,3],[3,8,5],[5,7,10],[6,2,0],[5,12,13]}

O/p: S={[1,2,3],[3,8,5],[5,7,10]}