## **SETS**

## **PracticeQuestions**

Output:2

1. Write a Python program to remove an item from a set if it is present in the set. Here Both I tem and Set is enter by the User.2. A. Python Program that Display which Letters are in the First String but not in the Second.B. Python Program that Displays which Letters are in the Two Strings but not in Both ${\bf 3. Program toget all subsets of given size of a set}$ Input:{1,2,3},n=2 Output:[{1,2},{1,3},{2,3}]  $4. Program to find all elements of a set 2 which are not present in set 1 using Set\ Comprehension.$ Input:s1={1,2,3}s2={2,1,5,6,} Output:{1,2} 5. Write program to find maximum product of two integers in a given set. $I/p: s={10,3,5,7}$ O/p:Themaximumproductisformedbythepairis:{10,7} 6. Program to find minimum noof moves to swap the elements.HereNisnoofelementsinaset. Input:N=4,S={3,2,1,4}

7. Program to get all the strings which contains all vowels

- 8. Python Program to find common elements in three list using sets.
- 9. Program to print the sum of maximum and minimum in a given Set.
- 10. Program to check entered subset is present in a given set or not.

$$I/p: s={2,5,1}$$

 ${\bf 11.} Py thon program to find the decimal of all the items in given set after flipping the bits (firstly convert decimal to binary).$ 

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

12. Programtocreateasetwhosearethemultipleofxandpresentinset1andset2butnot nbothsets. Herexisanypositive integerentered by user. I/P:x=2

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

{'ab','bcad'}

14. 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.

S={'Have','a','day'}

15. Entered a set (S) of list. Where list consist in teger numbers.

Writeaprogramtoprintaset(S)havingthoseitems(listofintegers)whosesumof integers

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

16. Suppose u and v both have values of type set and are disjoint. Which of the following expressions evaluates to True?

$$u == v \mid (u^v)$$

$$u == v^{(u \mid v)}$$

$$u == u^(v \mid u)$$

17. Suppose u and v both denote sets in Python. What is the most general condition that guarantees that  $u \mid v == u^v$ ?

The sets u and v should be disjoint.

The set u should be a subset of the set v.

The set v should be a subset of the set u.

This is true for any u and v.