1. There is an array/list = [2,3,2,4,1,2,5,3,2,1,4,5,8,6,3,2,1,2,1,5]. Output will be an array with distinct element in ascending order. Means the output for this given array should be

[1, 2, 3, 4, 5, 6, 8]

1. Write a program in python to join two arrays/lists and sort the merge array/lists.

**Input**

A = [2,3,5]

B = [1,4,9]

**OuWrtput**

MergedArr = [1,2,3,4,5,9]

1. Write a program to enter **n** integers into an array/list. The output should be a list of words as based on they are prime or non-prime.

**Input**

Enter the quantity of elements: 6

Enter the values below:

3

5

9

16

13

2

**Output**

[“PRIME”, “PRIME”, “NON-PRIME”, “NON-PRIME”, “PRIME”, “PRIME”]

1. There is a list of words = [‘apple’, ‘lucifer’, ‘mega’, ‘stock’, ‘bitcoin’]. Remove the elements containing ‘a’ and print the remaining list. Output should be: [‘lucifer’, ‘stock’, ‘bitcoin’]
2. Write a program which can take unlimited numbers of elements and append it to a list. Write in such a way that after every entry the program should ask “Do you want to enter more? (y/n):” If your answer is ‘y’/’Y’ the program should allow you to enter more elements otherwise the program will terminate and print the entered values and a message “Thanks for entering”.
3. Write a program to check whether a number is Armstrong or not.

**Input**

Enter an integer: 153

**Output**

It’s Armstrong

**Explanation**

153 has 3 digits. The digits are 1,5 and 3. And 13+53+33 = 153, hence it is Armstrong.

1. Write a program to print all the Armstrong numbers in a given range.

**Input**

START = 10

END=500

**Output**

153

370

371

401