1. Write a program to display all prime numbers within a range
2. **Write a program to count the total number of digits in a number**
3. **Write a Python function to check whether a number is perfect or not from 1 to 10000**
4. Write a program, which will find all such numbers between 1000 and 3000 (both included) such that each digit of the number is an even number.
5. Write a program which accepts a sequence of comma separated 4 digit binary numbers as its input and then check whether they are divisible by 5 or not. The numbers that are divisible by 5 are to be printed in a comma separated sequence. (n=int('0100',2))
6. Write a Python program to display automorphic numbers from the range 1 – 1000 ( An automrophic number is one whose square has the same digits as the original number. i.e. 5, 25, 76 etc)
7. Write a Python program to find numner of digits in the nth Fibonacci number.
8. Write a Python program to move all zeros present in a list to the end of that list.
9. Write a program that appends the square of each number to a new list.
10. Write a Python program to create separate lists of positive and negative number from a list.
11. **Find the first occurrence of a number in a list using a while loop:**
12. Find the common elements in two lists using a for loop:
13. Write a program that accepts sequence of lines as input and prints the lines after making all characters in the sentence capitalized.
14. Given 2 lists of integers, M and N, print their symmetric difference in ascending order. The term symmetric difference indicates those values that exist in either M or N but do not exist in both.
15. With two given lists [1,3,6,78,35,55] and [12,24,35,24,88,120,155], write a program to make a list whose elements are intersection of the above given lists.
16. Write a program to count the number of strings from a given list of strings where the string length is 2 or more and the first and last characters are the same.
17. **Write a program to find the list of words that are longer than n from a given list of words.**
18. Write a program to print duplicates numbers from a list of integers
19. **Write a Python program to check if a list is empty or not.**
20. Write a Python program to count the number of elements in a list within a specified range.
21. Write a Python program to find common items in two lists.
22. Write a Python program to insert an element before each element of a list.
23. Write a Python program to Zip two given lists of lists.
24. **Write a Python program to extract specified size of strings from a give list of string values.**
25. Write a Python program to count integers in a given list of mixed type elements.
26. Write a Python program to find the item with the most occurrences in a given list.
27. Write a Python program to accept a string and count the frequency of each vowel appearing in that string.
28. **Write a Python program to check whether the given string is binary.**
29. Write a Python program to find un common words from two multiword strings.
30. **Write a Python program to compute the sum of the digits in a given string.**
31. Write a Python program to find the smallest and largest words in a given string.
32. Write a Python program to delete all occurrences of a specified character in a given string.
33. Write a Python program to remove duplicate words from a given string.
34. Write a Python program to remove all characters from a string except integers
35. Write a program to exchange first and last character of every word from a sentence
36. Write a Python program to remove duplicate characters of a given string.
37. Write a Python program to create a string from two given strings concatenating uncommon characters of the said strings  
        Sample Output  
        String1 = ABCPQXYZ  
        String2 = XYNZABMC  
        Concatenating Uncommon Characters = PQNM
38. Write a Python program to check whether a given string contains a capital letter, a lower case letter, a number and a minimum length.
39. Write a program to read a sentence and replace lowercase characters with uppercase and vice versa.
40. Write a Python program to drop empty items from a given dictionary.  
        Original Dictionary:  
        {'c1': 'Red', 'c2': 'Green', 'c3': None}  
        New Dictionary after dropping empty items:  
        {'c1': 'Red', 'c2': 'Green'}
41. Write a Python program to verify that all values in a dictionary are the same.  
        Original Dictionary:  
        {'Ashish': 12, 'Arun': 12, 'Amol': 12, 'Anand': 12}
42. A Python dictionary contains List as a value. Write a Python program to clear the list values in the said dictionary.  
        Original Dictionary:  
        {'C1': [10, 20, 30], 'C2': [20, 30, 40], 'C3': [12, 34]}  
        Clear the list values in the said dictionary:  
        {'C1': [], 'C2': [], 'C3': []}
43. Write a Python program to calculate the average value of the numbers in a given tuple of tuples.
44. Write a Python program to convert a given tuple of positive integers into an integer.  
        Original tuple:  
        (10, 20, 40, 5, 70)  
        Convert the said tuple of positive integers into an integer:  
        102040570
45. **Write a Python program to replace the last value of tuples in a list.  
        Sample list: [(10, 20, 40), (40, 50, 60), (70, 80, 90)]  
        Expected Output: [(10, 20, 100), (40, 50, 100), (70, 80, 100)]**
46. Write a program to fetch only even values from a dictionary.
47. **Write a program that accepts a sentence and calculate the number of letters and digits. Store the result in a dictionary.**