

## Assignment number 2 (intro to programming):

1. Write a program that ask user to enter input (text or number or number with text):
  - In case the input is number get the summation of its digits.
  - In case the input is text remove the spaces.
  - In case number with text split them, number and text each individually.
2. Write a function which accept a string as argument and display total number of words.
3. Write function pow() that calculates the power, which takes base and exponent as arguments.
4. Write function area() that calculates the area of the shape.
5. Write a program to find the sum of all numbers in a list.
6. Write a program to concatenate two tuples then get the max and min element.
7. Write a function that takes tuple as argument and if length of tuple greater than 5, return the count of number elements. Note that the tuple may be with different data types.
8. Write a function which will able to print a index of list element without using index function.
9. Write a Python function to check whether a number falls within a given range.
10. Write a Python function that takes a number as a parameter and checks whether the number is prime or not.
11. Write a Python program to calculate the average value of the numbers in a given tuple of tuples.  
Original Tuple:  
((10, 10, 10, 12), (30, 45, 56, 45), (81, 80, 39, 32), (1, 2, 3, 4))  
Average value of the numbers of the said tuple of tuples:  
[30.5, 34.25, 27.0, 23.25]

12. Write a Python program to check if a list is empty or not. if not, sort it in increasing order.
13. Write a Python function that takes two lists and returns True if they have at least one common member.
14. Write a Python program to print the numbers of a specified list after removing even numbers from it.