# Week-1 programs on Basics of Python (Loops, If-elif, slicing, type casting, Lists, Tuples, Sets, Dictionary)

1. Write a python program to read a sentence and capitalize each word of the given sentence.
2. Write a menu driven python program that maintains data as a telephone dictionary. Data consists of a (key, value) pairs with (mobile no, name). Read at least 10 such entries and perform a search operation based on the mobile number. i.e. given a mobile no, print the owner name as the output.
3. Write a python program to remove duplicate elements from a list.
4. Write a python program to calculate the number of upper- and lower-case letters in each sentence.
5. Write a python program using sets, to print the common characters from given 2 strings.
6. Write a python program to detect whether the given 2 strings are anagrams or not? ex: anagram, nagaram
7. Write a python program to Create a List of Tuples with the First Element as the Number and Second Element as the Square of the Number.
8. Write a python program that reads text from a file and prints the frequency of each word. (ignore punctuations and stop words like is, an, the, for, be, to, in, are, and, has, from, i, am, of, then, if, do, with, at, a, or, as).
9. Input validation: Read Username and password from the user. Username should be alpha numeric and password should satisfy the following criteria
   1. Length should be 8
   2. At least one number
   3. At least one symbol
   4. At least one lower and one uppercase characters.
10. Read a list of names and a character. Display all the names that are starting with the given character.
11. Read a line of text, and then remove all the special characters and symbols from the given text.