DEPARTMENT OF COMPUTER SCIENCE

MCA I Semester Python Lab, Assignment-2

- Q.1 Write a program that reads a text from keyboard and display:
 - The number of uppercase letters
 - The number of lowercase letters
 - The number of digits in the
 - The number of whitespace characters
 - The number of words in the string
- Q.2 Write a program in python that accepts a string to setup a passwords. Your entered password must meet the following requirements:
 - The password must be at least eight characters long.
 - It must contain at least one uppercase letter.
 - It must contain at least one lowercase letter.
 - It must contain at least one numeric digit.
- Q.3 Write a Python program to perform the following operations in tuple
 - Find repeated items.
 - Check whether an element exists within a tuple.
 - remove an item from a tuple
 - Convert a tuple to a dictionary.
- Q.4 Write a python program to implement binary Search.
- Q.5 Write a python program to implement Linear Search.
- Q.6 Write a python program to implement selection sort
- Q.7 Write a python program to implement merge sort
- Q.8 Write a python program to implement quick sort.
- Q.9 Write a python program to implement shell Sort
- Q.10 Write a menu driven python program to perform matrix addition, subtraction and multiplication.