Set-1

Q. 1, Write a function display_oddLines() to display odd number of lines from text file - friends.txt

Ans:
```
def display_oddLines():
    f = open("friends.txt","r")
    L = f.readLines()
    n = len(L)
    print("Displaying odd number of lines:")
    for i in range(1,n,2):
        print(L[i])
    f.close()
```
(Program execution starts from here)
function call → display_oddLines()

Or

Q. 2, Write a program in python to show word with maximum length from a text file - "Demo.txt"

Ans:
```
def display_MaxWord():
    file= open("Demo.txt","r")
    str = file.read()
    WL = str.split()
    max = len(WL[0])
    max_word = WL[0]
    w = "" / w = 0
    for w in WL:
        if (len(w)> max):
            max = len(w)
            max_word = w
    file.close()
    print("Maximum length word :", max_word)
    print("The length of max word :", max)
```
function call (program starts from here) → display_MaxWord()

Set-2

Q.1. Write a function display() in python that opens a file "DIARY.TXT" and display those lines which starts with the alphabet 'p' or 'P'

Ans:

```
def display():
    file = open("DIARY.TXT", "r")
    L = file.readlines()
    line = "" / Line = 0
    for line in L:
        if line[0] == "p" or line[0] == "P":
            print(line)
    file.close()
display()
```

Or

Q.2. Write a function in Python that counts the number of "Me" or "My" words present in text file "STORY.TXT"
output : The Number of Me/My words : 4

Ans.

```
def CountMeMy():
    file = open("STORY.TXT","r")
    count = 0
    str = file.read()
    L = str.split()
    w = "" / w = 0
    for w in L:
        if w == "Me" or w == "My":
            count += 1
    file.close()
    print("The Number of Me/My words :", count)
CountMeMy()
```

Set-3

Q.1, Same as Set-2, Q-OR, Q.2,

Or

Q.2, Write a function AMCount() in Python, which should read each character of a text file STORY.TXT, should count and display the occurrence of alphabets A and M (including small cases a and m too)

output should be : A or a : 4
M or m : 2

Ans :

```
def AMCount():
    file=open("STORY.TXT", "r")
    count1 = count2 = 0
    str=file.read()
    ch="" / ch=0
    for ch in str:
        if ch == 'A' or ch == 'a':
            count1 = Count1 + 1
        if ch == 'M' or ch == 'm':
            count2 = count2 + 1
    file.close()
    print("A or a :", count1)
    print("M or m :", count2)
AMCount()
```

Set-4

Q.1, Write a program to count the number of upper-case alphabet present in text file "PYTHON.TXT"

Ans :

```
def countUpper():
    ch="" / ch=0
    file=open("PYTHON.TXT", "r")
    count = 0
    str = file.read()
    for ch in str:
        if ch.isupper() == True:
            count += 1
    file.close()
    print("Number of upper-case alphabet :", count
countUpper()
```

OR

Q.2, Write a function which takes an input and output file. It copies all lines which starts with vowels from input file to output file,

Ans:

```
def CopyLineVowel (infile, outfile):
    fin = open ( infile, "r")
    fout = open ( outfile, "w")
    L = fin.readlines()
    line = "" / Line = 0
    for line in L:
        if Line[0] in "AEIOUaeiou":
            fout.write (line)
    fin.close()
    fout.close()
CopyLineVowel ("story.txt", "story2.txt")
```

Set-5

Q.1, Write a function LongLine() that accepts a file name and prints the file's longest line with its length.

Ans:

```
def LongLine (fileName):          * fileName
    file = open (fileName, "r")       = STORY.TXT
    str = file.readlines()
    max = len (str[0])
    max_line = str[0]
    line = " " / line = 0
    for line in str:
        if len(line) > max:
            max = len (line)
            max_line = line
    fileclose()
    print (" The longest line: ", max_line)
    print (" The length of maximum
                length line: ", max)
LongLine ("STORY.TXT")
```

Or,

Q.2, Write a function rem_Lower() that accepts two filenames and copies all lines that do not start with a lowercase letter from first file into second.

Ans:
```
def rem_Lower(infile, outfile):
    fin = open(infile, "r")
    fout = open(outfile, "w")
    L = fin.readlines()
    line = "" / line = 0
    for line in L:
        if line[0].islower == False:
            fout.write(line)
    fin.close()
    fout.close()
rem_Lower("DIARY.TXT", "DIARY2.TXT")
```

Set-6

Q.1, Write a program to display all the records in a file "python.txt" along with line/record number.

Ans:
```
def DisplayLine()
    f = open("python.txt", "r")
    L = f.readLines()
    for i in range(len(L)):
        print("Line/Record Number:", i+1,
                                    ":", L[i])
    f.close()
DisplayLine()
```

Q.2 A text file "PYTHON.TXT" contains alphanumeric text. Write a program that reads this text file and prints only the numbers or digits in the file

Ans:

Method-1:

```
def DisplayDigit():
    f = open("PYTHON.TXT", "r")
    str = f.read()
    wl = str.split()
    print("Displaying only numbers/digits of file:")
    w = " "/w = 0
    for w in wl:
        for ch in w:
            if ch.isdigit() == True:
                print(ch)
    f.close()
DisplayDigit()
```

Method-2:

```
def DisplayDigit():
    f = open("PYTHON.TXT", "r")
    str = f.read()
    print("Displaying only number/digits of file:")
    ch = " "/ch = 0
    for ch in str:
        if ch.isdigit() == True:
            print(ch)

    f.close()

DisplayDigit()
```

Set-7

Q.1. Write a function that takes in two text files and copies all lines from first file to second, baring the lines starting with "a".

Ans:

```
def CopyLine (infile, outfile):
    fin = open (infile, "r")
    fout = open (outfile, "w")
    L = fin.readlines ()
    line = "" / line = 0
    for line in L:
        if line[0] == "A" or line[0] == "a":
            fout.write (line)
    fin.close ()
    fout.close ()
CopyLine ("STORY1.TXT", "STORY2.TXT")
```

Or

Q.2. Write a program to count the words "to" and "the" present in a text file "python.txt"

Ans:

```
def CountWord ():
    w = "" / w = 0
    file = open ("python.txt", "r")
    str = file.read ()
    wl = str.split ()
    c1 = c2 = 0
    for w in wl:
        if w == "to" or w == "To":
            c1 = c1 + 1
        if w == "the" or w == "The":
            c2 = c2 + 1
    file.close ()
    print ("Number of word to/To:", c1)
    print ("Number of word the/The:", c2)

CountWord ()
```

Set - 8

Q.1. Write a function word4() in python that displays 4 letter words present in a text file "myfile.txt"

Ans:
```
def word4():
    file=open("myfile.txt","r")
    w=" "/w=0
    str=file.read()
    wl=str.split()
    for w in wl:
        if len(w)==4:
            print(w)
```

word4()

Q. 2→ Write a python function word3() that displays 3 letter words in a text file "myfile.txt")
↳ same as Q.1.

Q. 3→ Write a program filterWord5() in python that count and displays 5 letter words present in a text file "story.txt"

Ans:
```
def filterWord5():
    f=open("story.txt","r")
    w=""/w=0
    count=0
    str=f.read()
    wl=str.split()
    for w in wl:
        if len(w)==5:
            print(w)
            count+=1
    f.close()
    print("Number of 5 letter words:",count)
```

FilterWord5()

Set -10

Q.1. Your teacher has given you a method/function filterWords() in python which read lines from text files NewsLetter.TXT, and displays those words, which are lesser than 4 characters

Ans:

```
def filterWords():
    c=0
    file = open( NewsLetter.TXT , 'r')
    line = file.read()
    word = line.split()
    for e in word:
        if len(e) < 4:
            print(e)
    file.close()

filterWords()
```