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 ()
    m = len (L)
    print (" Displaying odd number of line:")
    for i in range (1,m, 2):
        print (L[i])
    f.close()
```

or

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

Ans :

```
def display-MaxWord ( ):
    f = open (" Demo.txt","r")
    str = f.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
    f.close()
    print ("Maximum length word :", max_word)
    print (" The length of max word :", max)
```

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

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

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 AM count ():

```
f = open ("STORY.TXT", 'r')
count1 = count2 = 0
str = f.read ()
ch=""/ch=0
for ch in str :
    if ch == 'A'  or  ch == 'a' :
        count1 = Count1 + 1
    if ch == 'M'  or  ch == 'm' :
        count2 = Count 2 + i

f.close()
print ("A or a : ", count1)
print ("M or m : ", count2)
```

Set - 4

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

Ans :   def count Upper ():

```
ch="" /ch=0
f = open (" PYTHON.TXT", "r")
count = 0
str = f. read ()
for ch in str :
    if ch. isupper () == True :
        count += 1

f.close()
print (" Number of upper-case alphabet : ", count)
```

or

④

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 CopyLine Vowel (infile, outfile):
    fin = open ( infile, "r")
    fout = open ( outfile, "w")

    L = fin. readlines()
    line=" "/line=0
    for line in L:
        if line [0] in "AEIOU aeiou":
            fout. write (line)
    fin. close()
    fout. close()
```

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 Long Line (fileName):      * fileName
    f = open (fileName, "r")        = STORY.TXT
    str = f. 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
    f. close ()
    print (" The longest line :", max_line)
    print (" The length of maximum
                    length line: ", max)
```

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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 ()
```

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 ()
```

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 ()
```

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 ()
```

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 ()
```

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
    f = open ("python.txt", "r" )
    str = f.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
    f.close ()
    print ("Number of word to/To:", c1)
    print ("Number of word the/The:", c2)
```

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

Ans :

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

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 counts 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)
```

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 (c) < 4 :
            print (e)
    f. close ()

filterWords ()
```