Lab 19

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: CODE :

```
# File Handling

f = open(r"D:\ICT\SEM 3\PWP (Programming with Python )\Session Handout\Lab 19\Text.txt")

# Read from file
print(f.read(3))


# Task 1
def program1():
    f = open("intro.txt","w")
    text = input("Enter the text : ")
    f.write(text)
    f.close()

program1()


# Task 2
def program2():
    f = open("MyFile.txt","w")
    line1=input("Enter the text : ")
    line2=input("Enter the text : ")
    line3=input("Enter the text : ")
```

```
    new_line='\n'
    f.write(line1)
    f.write(new_line)
    f.write(line2)
    f.write(new_line)
    f.write(line3)
    f.write(new_line)
    f.close()

program2()


# Task 3
def program3():
    with open("MyFile.txt","r") as f1:
        data=f1.read()
    with open("Intro.txt","r") as f2:
        data1=f2.read()
    with open("Merge.txt","w") as f3:
        f3.write(data)
        f3.write(data1)

program3()


# Task 4
# Find upper case and lower case character from merge file

f = open("Merge.txt","r")

upper = 0
lower = 0
```

```
special = 0
number = 0

while(True):
    a = f.read(1)
    print(a)
    if(a==""):
        break
    elif(a>='A' or a<='Z'):
        upper = upper+1
    elif(a>='a' or a<='z'):
        lower = lower+1
    elif(a>=0 or a<=9):
        number = number+1
    else:
        special = special+1

print('Total Upper Case : ',upper)
print('Total Lower Case : ',lower)
print('Total Numbers Case : ',number)
print('Total Special Case : ',special)
```

Practice Exercises :

1. **Write a python program to find the longest words in a text file**

```
def longest_word(filename):
    with open(filename, 'r') as infile:
            words = infile.read().split()
    max_len = len(max(words, key=len))
    return [word for word in words if len(word) == max_len]

     print(longest_word('test.txt'))
```

2. **Write a Python program to count the number of lines in a text file**

```
f = open("Merge.txt","r")

new_line = 0

while(True):
    a = f.read(1)
    print(a)
    if(a==""):
        break
    elif(a=='\n'):
        new_line = new_line +1

     print('Total New Lines : ', new_line)
```

3. **Write a Python program to count the frequency of words in a file**

```
from collections import Counter
def word_count(fname):
        with open(fname) as f:
                return Counter(f.read().split())

     print("Number of words in the file :",word_count("test.txt"))
```

4. **Write a function in Python to count and display the total number of words in a text file.**

```
f = open("Merge.txt","r")

space = 0
```

```
while(True):
    a = f.read(1)
    print(a)
    if(a==""):
        break
    elif(a == ' '):
        space = space+1

    print('Total New Words : ', space+1)
```

5. **Write a function in Python to read lines from a text file "notes.txt". Your function should find and display the occurrence of the word "the".**

For example: If the content of the file is:
"India is the fastest-growing economy. India is looking for more investments around the globe. The whole world is looking at India as a great market. Most of the Indians can foresee the heights that India is capable of reaching."
The output should be 5.

```
file = open("notes.txt", "r")

data = file.read()

occurrences = data.count("the")

print('Number of Word : ', occurrences)
```

6. **Write a function in Python to count words in a text file those are ending with alphabet "e".**

```
f = open("Merge.txt", "r")

end = 0

while (True):
    a = f.read(1)
    print(a)
    if (a == ""):
        break
    elif (a.endswith('e')):
        end = end+1

    print('Total Words : ', end)
```