Practical – 2 : File Operation

Write a program to open/close file with read/write mode and implement following functions: 1. To copy content of one file to another 2. To Capitalize word of File each copy content of one file to another 3. Display Distinct Characters and their counts, No of Words, No of Lines in a File.

Code:

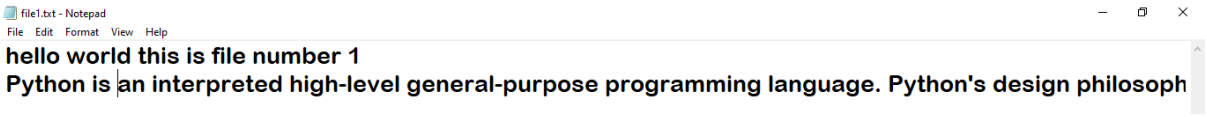
```
try:
    file1 = input("Enter file 1 : ")
    x = open(file1, 'r')
except (FileNotFoundError):
    print("Error !!! File not found in your specified directory")
while (True):
    print("--------------- | MENU |----------------")
    print("0.Display content of file ")
    print("1.Copy content of one file to another")
    print("2.Copy content of one file to another but in UPPER CASE ")
    print("3.Display Distinct Characters and their counts")
    print("4.No of Words in file ")
    print("5.No of Line in file")
    print("6.Exit")
    print("-------------------------------------------------")
    ch = int(input("Enter Choice : "))
    if (ch == 0):
        print("Content of file1 : ")
        # noinspection PyUnboundLocalVariable
        print(x.read())
    elif (ch == 1):
        file2 = input("Enter file to copy content to another : ")
        y = open(file2, 'a')
        for i in x.read():
            y.write(i)
            # y.close()
    elif (ch == 2):
        file2 = input("Enter file to copy content to another UPPER-CASE :
")
        y = open(file2, 'a')
        for i in x.read():
            y.write(str.upper(str(i)))
            # y.close()
        print("Copy successfully !! ")
    elif (ch == 3):
        d = {}
        for i in x.read():
            if i in d:
                d[i] += 1
            else:
                d[i] = 1
        for k, v in d.items():
            print(k, " ===> ", v)
    elif (ch == 4):
        data = x.read()
        word = data.split()
        print("No of word in file1 : ", len(word))
    elif (ch == 5):
        print("No of line in file1 : ")
```

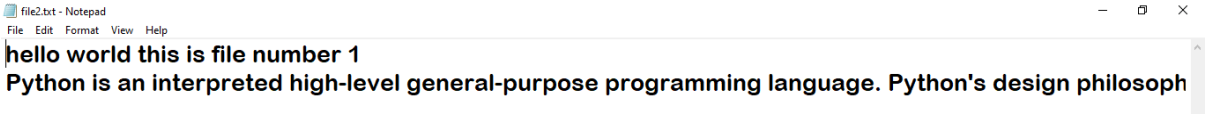
```
        print(len(x.readlines()))
    elif (ch == 6):
        print("Thanks for your time giving me in program !! ")
        break
    else:
        print("Invalid choice !!")
    break
```

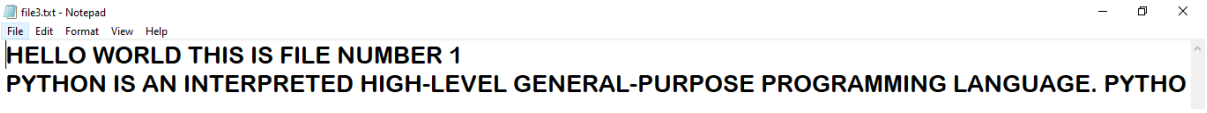
Output:

```
Enter file 1 : file1.txt
-------------- | MENU |---------------
0.Display content of file
1.Copy content of one file to another
2.Copy content of one file to another but in UPPER CASE
3.Display Distinct Characters and their counts
4.No of Words in file
5.No of Line in file
6.Exit
-----------------------------------------------
Enter Choice : 0
Content of file1 :
hello world this is file number 1
Python is an interpreted high-level general-purpose programming language. Python's design philosophy emphasizes code readability with its notable use of signif

Enter Choice : 1
Enter file to copy content to another : file2.txt

Enter Choice : 2
Enter file to copy content to another UPPER-CASE : file3.txt
Copy successfully !!
```

```
Enter Choice : 3
h  ===>  10
e  ===>  20
l  ===>  11
o  ===>  12
   ===>  26
w  ===>  2
r  ===>  9
d  ===>  6
t  ===>  12
i  ===>  19
s  ===>  12
f  ===>  3
n  ===>  15
u  ===>  4
m  ===>  4
b  ===>  3
1  ===>  1

  ===>  1
P  ===>  2
y  ===>  4
a  ===>  11
p  ===>  7
g  ===>  8
-  ===>  2
v  ===>  1
.  ===>  2
'  ===>  1
z  ===>  1
c  ===>  2

Enter Choice : 4
No of word in file1 :  28

Enter Choice : 5
No of line in file1 :
2
```


file1.txt - Notepad
File Edit Format View Help
hello world this is file number 1
Python is an interpreted high-level general-purpose programming language. Python's design philosoph


file2.txt - Notepad
File Edit Format View Help
hello world this is file number 1
Python is an interpreted high-level general-purpose programming language. Python's design philosoph


file3.txt - Notepad
File Edit Format View Help
HELLO WORLD THIS IS FILE NUMBER 1
PYTHON IS AN INTERPRETED HIGH-LEVEL GENERAL-PURPOSE PROGRAMMING LANGUAGE. PYTHO