

Python Practical (208) – Assignment-8

'''

Q.1. Write a Python program to create a text file of multiple lines. Display the following:

- 1. Line number and number of words in each line.**
- 2. Display each line with the words in backward order.**
- 3. Display line numbers of the empty lines.**
- 4. Display all the lines that contain alphabets and digits both.**
- 5. Display all the lines that contain only alphabets.**

'''

write to file

```
f = open("p1f1.txt","a")
```

```
while True:
```

```
    text = input()
```

```
    if text.upper() == "END":
```

```
        break
```

```
    f.write(text.strip()+"\n")
```

```
f.close()
```

read from file

```
f = open("p1f1.txt","r")
```

```
for i in f:
```

```
    print(i.strip())
```

line number and number of words

```
print("Line number and number of words in each line.\n")
```

```
f = open("p1f1.txt","r")
```

```
count = 0
```

```
print("count  No.of Word")
```

```
for i in f:
```

```
count += 1
if(len(i.strip()) == 0):
    print(count," ",0)
else:
    print(count," ",len(i.strip().split(" ")))
```

Display each line with the words in backward order.

```
print("Display each line with the words in backward order.\n")
f = open("p1f1.txt","r")
count = 0
```

```
print("count No.of Word")
```

```
for i in f:
```

```
    line = i.strip()
```

```
    line = line.split(" ")
```

```
    line = line[::-1]
```

```
    for word in line:
```

```
        print(word,end=" ")
```

```
    print()
```

#Display line numbers of the empty lines.

```
print("Display line numbers of the empty lines.\n")
f = open("p1f1.txt","r")
count = 0
```

```
for i in f:
```

```
    count += 1
```

```
    if(len(i.strip()) == 0):
```

```
        print(count)
```

#Display all the lines that contain alphabets and digits both.

```
print("Display all the lines that contain alphabets and digits both.\n")
f = open("p1f1.txt","r")
count = 0
```

```
for i in f:
```

```
    lst = i.strip().split(" ")
```

```
    if any(k.isalpha() for k in lst) and any(k.isdigit() for k in lst):
```

```
        print(i.strip())
```

#Display all the lines that contain only alphabets.

```
print("Display all the lines that contain only alphabets.\n")
```

```
f = open("p1f1.txt", "r")
```

```
count = 0
```

```
for i in f:
```

```
    lst = i.strip().split(" ")
```

```
    if all(k.isalpha() for k in lst):
```

```
        print(i.strip())
```

'''

Q.2. Write a Python program to create two text files containing different words. Create a list containing words that exist in both the files.

'''

#file 1

```
f = open("p2f1.txt","w")
while True:
    text = input()
    if text.upper() == "END":
        break
    f.write(text.strip()+" ")
f.close()
```

```
f = open("p2f1.txt","r")
print(f.read())
f.close()
```

#file 2

```
f = open("p2f2.txt","w")
while True:
    text = input()
    if text.upper() == "END":
        break
    f.write(text.strip()+" ")
f.close()
```

```
f = open("p2f2.txt","r")
print(f.read())
f.close()
```

read from file and convert to list

```
f = open("p2f1.txt", "r")
str1 = f.read().strip()
lst1 = str1.split(" ")
print(lst1)
f.close()
```

```
f = open("p2f2.txt", "r")
str2 = f.read().strip()
lst2 = str2.split(" ")
print(lst2)
f.close()
```

#convert to set to intersection

```
set1 = set(lst1)
set2 = set(lst2)
```

```
set3 = set1.intersection(set2)
lst3 = list(set3)
```

```
print(lst3)
```

'''

Q.3. Create a list of numbers. Then divide the list into 3 parts and reverse each part. Display all the parts.

'''

import math

lst = []

while True:

 val = int(input("Enter Number : "))

 if val == 0:

 break

 lst.append(val)

#Divide in 3 part

if(len(lst) < 3):

 print("can't divide in 3 part..because less than 3 elements....")

 exit()

else:

 div = math.ceil(len(lst)/3)

 #div = (len(lst)//3)

 lst1 = lst[0:div]

 lst2 = lst[div:div+div]

 lst3 = lst[div+div:]

print(lst1)

print(lst2)

print(lst3)

#Reverse Each Part

lst1 = lst1[::-1]

```
lst2 = lst2[::-1]
```

```
lst3 = lst3[::-1]
```

```
print(lst1)
```

```
print(lst2)
```

```
print(lst3)
```