In [1]:
```
#Q1.Write a program in python that stores alphabets from a to z in a text file.
f = open("Alpha.txt",'w')
for i in range(65,91):
    print(chr(i),end=' ')
    f.write(chr(i))
    f.write(' ')

f.close()
```

```
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
```

In [ ]:
```
#Q2. Write a program to read itself and print on the screen (Use Command Line Argume
import sys
print(sys.argv)
f_name = sys.argv[0]
with open(f_name, 'r') as f:
    print(f.read())
```

In [6]:
```
# Q3 Predict output of the following piece of code:
f=open('file', 'w')
f.write('line with some characters')
f.close()

f = open('file', 'r')
print (f.tell ())
print (f.read(4))
print (f.tell())
```

```
0
line
4
```

In [7]:
```
# Q4. Write a program to read a file and copy it into a new file.
with open("Alpha.txt","r") as f:
    with open("out.txt", "w") as f1:
        for i in f:
            f1.write(i)
```

In [10]:
```
# Q5. write a program the read file and copy the contents to new file such that the
f1 = open("Alpha.txt", "r")
f2 = open("s2.txt", "w")
for line in f1:
    f2.write(line.swapcase())
```

In [ ]:
```
# Q6. Write a program that take a file name as command line argument, opens it and t
import sys
file_name = sys.argv[1]
fp = open(file_name)
contents = fp.read()
count=0

for i in contents:
    sp = i.split()
    for j in sp:
        if(j.isspace):
            count = count + 1
print("The number of blank spaces is: ",count)
```

In [ ]:
```
#Q 7. modify above program to count the occurrence of each symbol
import sys
file_name = sys.argv[1]
fp = open(file_name)
contents = fp.read()

s=0
d=0
a=0

for i in contents:
    sp = i.split()
    for j in sp:
        if(j.isspace()):
           s+=1
        elif(j.isdigit()):
           d = d + 1
        elif(j.isalnum()):
           a = a + 1
        elif(j.isnumeric()):
           ig = ig +1
print("The number of blank spaces is: ",s)
print("The number of digits: ",d)
print("The number of digits: ",a)
```

In [ ]:
```
# Q 8. Write a script called diff.py that takes two file names as arguments and chec

import sys
import filecmp

fin=sys.argv[1:]
for input in fin:
    print ("files : ",input)
print(fin[0])
print(fin[1])
with open(input ,'r') as fi:
    read_data=fi.readlines()
    res=filecmp.cmp(fin[0],fin[1],shallow=True)
    print(res)
```

In [15]:
```
# Q9. WAP to count the number of words in a file
c=0
with open("s2.txt",'r') as f:
    for line in f:
        words = line.split()
        for i in words:
            c = c + 1
print(line)
print("Number of words in file : ",c)
```

```
a b c d e f g h i j k l m n o p q r s t u v w x y z
Number of words in file :  26
```

In [ ]:
```
#Q10.count the number of palidrome present in the file.

n=0
j=0
with open("plain.txt",'r') as f:
    word1=f.read().split()
    for i in word1:
        n=n+1
```

```
        if  i==i[::-1]:
            j=j+1
print("Number of pallindrome are as :- ",j)
```

In [ ]:

```
# Q11.Update the program again to count and print number of anagrams in the file
n=0
p=0
a=0
with open("palin.txt",'r') as f:
    word=f.read().split()
    for i in word:
        n=n+1
        if  i==i[::-1]:
          p=p+1

    for j in word:
        if i == j:
            continue
        else:
            w1 = i.lower()
            w2 = j.lower()
            if  sorted(w1) == sorted(w2):
                a=a+1
print("Number of pallindrome are as :- ",p)
print("Number of anagrams are :- ",a)
```

In [ ]: