**PROGRAM CODE:**

#no of words,lines,characters in a file

file=open('data.txt','w')

file.write('Good morning \n')

file.write('How are you? \n')

file.write('Good bye \n')

file.close()

lines=0

words=0

char=0

file=open('data.txt','r')

print(file.read())

file=open('data.txt','r')

for i in file:

lines+=1

w=i.split()

words+=len(w)

for i in range(len(w)):

char+=len(w[i])

file.close()

print('No of lines: ',lines)

print('No of words: ',words)

print('No of characters: ',char)

**OUTPUT:**

Good morning

How are you?

Good bye

No of lines: 3

No of words: 7

No of characters: 28

**PROGRAM CODE:**

#no of occurrences of a word, frequently used word

d={}

file=open('data.txt','w')

file.write('Good morning \n')

file.write('How are you? \n')

file.write('Good bye \n')

file.close()

file=open('data.txt','r')

print(file.read())

file=open('data.txt','r')

for i in file:

w=i.split()

for word in w:

if word not in d.keys():

d[word]=1

else:

d[word]+=1

for j in d:

print('No of occurences of ',"'",j ,"'",': ',d[j],sep='')

freq=max(d.values())

for k in d:

if d[k]==freq:

print('The most frequently used word is ',"'",k,"'")

**OUTPUT:**

Good morning

How are you?

Good bye

No of occurences of 'Good': 2

No of occurences of 'morning': 1

No of occurences of 'How': 1

No of occurences of 'are': 1

No of occurences of 'you?': 1

No of occurences of 'bye': 1

The most frequently used word is ' Good '

**PROGRAM CODE:**

#find and replace a word

file=open('data.txt','w')

file.write('Good morning \n')

file.write('How are you? \n')

file.write('Good bye \n')

file.close()

file=open('data.txt','r')

print(file.read())

x=input('Enter the word to be found: ')

y=input('Enter the word to replace it : ')

print()

file=open('data.txt','r+')

f=file.read()

if x in f:

f=f.replace(x,y)

file=open('data.txt','w')

file.write(f)

file=open('data.txt','r')

print(file.read())

else:

print('The word',x,'is not found')

file.close()

**OUTPUT:**

Good morning

How are you?

Good bye

Enter the word to be found: Good

Enter the word to replace it : Bad

Bad morning

How are you?

Bad bye

Enter the word to be found: Evening

Enter the word to replace it : Afternoon

The word Evening is not found