**#q1**

fobj = open("Sample1.txt") #opening the file

data = fobj.read() # reading the file

print(data) #printing the contents of the file

ans: Old MacDonald had a farm, E-I-E-I-0

**#q2**

def Alternate\_Char(): #defining the function

fobj = open("sample.txt") #opening the file

data = fobj.read() #reading the file

word = data.split() #splitting the file into words

for i in range(len(word)): #iterating through the words

if i%2==0:

print(word[i], end=' ') #printing alternate characters from the list

Alternate\_Char() #calling the function

ans: Old had farm,

**#q3**

with open("Sample.txt") as fobj: # opening the file

data = fobj.read() # reading the file

word = data.split() # splitting the file into words

for i in word: #iterating through words

for j in i: #iterating through letters in the words

if j.isdigit(): #checking if the character is a digit

print(data)

print(j, end=",")

ans: Old MacDonald had a farm, E-I-E-I-0

0

**#q4**

def CharCount(ch): #defining function to count a specific character

with open("count.txt") as fobj: #opening the file

data = fobj.read() #reading the file

word = data.split() #splitting the file into words

c = 0 #setting the counter to count the occurrences

for i in word: #iterating through words

for j in i: #iterating through letters

if j == ch:

c+=1

print(data)

print(c)

ch = input("Enter the character of which its frequency is to be found: ") #accepting character from the user

CharCount(ch) #calling the function

ans: Old MacDonald had a farm, E-I-E-I-0

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**#q5**

with open("Sample.txt") as f: #opening the file

lines = f.readlines() #reading through the lines of the file

print(len(lines)) #printing the number of lines

ans: 3'''

**#q6**

'''n = int(input("Enter the number of lines to be written: ")) #accepting the number of lines to be written

with open("Sample.txt") as fobj: #opening the file

for i in range(n): #printing the number of lines accepted by the user

print(fobj.readline())

ans: Enter the number of lines to be written: 2

Old MacDonald

had a farm

**#q7**

n = int(input("Enter the number of lines to be written: ")) #accepting the number of lines to be written from the user

with open("Sample.txt") as fobj: #reading the file

for i in range(n):

print(fobj.readline(), "The line no. is: ", i+1) #printing the line and the line number

ans: Enter the number of lines to be written: 2

Old MacDonald

The line no. is: 1

had a farm

The line no. is: 2

**#q8**

with open("Sample.txt") as fobj:

line\_no = 0

for i in fobj:

if line\_no % 2 == 0:

print(i)

line\_no+=1

**#q9**

import random as r

with open("Sample.txt") as fobj:

data = fobj.readlines()

lines = r.choice(data)

print(lines)

**#q10**

n = int(input("Enter the number of last lines to be written: "))

with open("Sample.txt") as fobj:

data = fobj.readlines()

last\_lines = data[-n:]

for i in last\_lines:

print(i)

**#q11**

with open("Sample.txt") as fobj:

l = []

data = fobj.readlines()

for i in data:

l.append(i.strip())

print(l)

#q12

with open("Sample.txt") as fobj:

data = fobj.readlines()

longest\_line = max(data, key=len)

print(longest\_line)

**#q13**

frequency = dict()

with open("Sample.txt") as fobj:

data = fobj.read()

words = data.split()

for i in words:

if i in frequency:

frequency[i] += 1

else:

frequency[i] = 1

for key in list(frequency.keys()):

print(key, ':', frequency[key])

**#Q14**

l = ''

with open ("Sample.txt") as fobj:

data = fobj.read()

word = data.split()

for i in word:

if len(i) > len(l):

l = i

print(l)

**#q15**

c\_and = 0

c\_is = 0

with open("Sample.txt") as fobj:

data = fobj.read()

word = data.split()

for i in word:

if i == 'and':

c\_and += 1

if i == 'is':

c\_is += 1

print("The number of times 'and' appears is:", c\_and)

print("The number of times 'is' appears is:", c\_is)

**#q16**

with open("Sample.txt") as fobj:

data = fobj.read()

cap = data.upper()

print(cap)

**#q17**

n = int(input("Enter the number of lines to be written: "))

l = []

with open("Sample.txt", 'w') as fobj:

for i in range(n):

write = input("Enter the lines to be written: ")

l.append(write)

for i in l:

fobj.write(i)

**#q18**

l = ['hi', 'my name is ndidin']

with open("Sample.txt", 'w') as fobj:

for i in l:

x = fobj.writelines(i + ' ')

**#q19**

with open("Sample.txt") as fobj:

data = fobj.read()

with open("count.txt", 'w') as fwrite:

fwrite.write(data)

#q20

with open("Sample.txt") as fobj:

data = fobj.read().replace('', '#')

with open("count.txt", 'w') as fwrite:

fwrite.write(data)

**#q21**

l = []

with open("Sample.txt") as fobj:

data = fobj.readlines()

for i in data:

if (i[0]).isupper() or (i[0]).isdigit():

l.append(i)

with open("count.txt", 'w') as fwrite:

for i in l:

fwrite.write(i)

**#q22**

l = []

with open("Sample.txt") as fobj:

data = fobj.readlines()

for i in data:

i = i.strip()

if (i[-1]).islower() or (i[-1]).isdigit():

l.append(i)

with open("count.txt", 'w') as fwrite:

for i in l:

fwrite.write(i+ '\n')

**#q23**

l = []

with open("Sample.txt") as fobj:

data = fobj.read()

word\_five = data.split()

for i in word\_five:

if len(i) == 5:

l.append(i)

with open("count.txt", 'w') as fwrite:

for i in l:

fwrite.write(i+ ' ')

**#q24**

l = []

with open("Sample.txt") as fobj:

data = fobj.read()

word\_five = data.split()

for i in word\_five:

if i[0] not in 'AEIOU':

l.append(i)

with open("count.txt", 'w') as fwrite:

for i in l:

fwrite.write(i+ ' ')

**#q26**

l = []

with open("Sample.txt") as fobj:

data = fobj.read()

word = data.split()

for i in word:

if i[0] in 'tT':

l.append(i)

with open("count.txt", 'a') as fwrite:

for i in l:

fwrite.write(i+ '\n')