ANSWERS TO PRACTICE QUESTIONS - TEXT FILES

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1 def count():
      u=1=d=sp=0
      fin=open("string.txt")
      s=fin.read(1)
      while s:
           if s.isupper():
               u+=1
           elif s.islower():
               1+=1
           elif s.isdigit():
               d+=1
                                  read() also reads newline
           elif s!='\n':
                                  character \n
               sp+=1
           s=fin.read(1)
      print("Number of upper case",u)
      print("Number of lower case",1)
      print("Number of digits",d)
      print("Number of special characters",sp)
2 def count():
       v=c=0
                                       We need to check for isaplha()
       fin=open("string.txt")
                                       because consonants are
       s=fin.read(1)
                                       alphabets which are not
       while s:
               if s.isalpha():
                    if s.upper() in "AEIOU":
                        v+=1
                    else:
                        C+=1
               s=fin.read(1)
       print("Number of vowels",v)
       print("Number of consonants",c)
3 def count():
                                       We read the entire content of the
       C=0
                                       file and split the text, word by word
      fin=open("string.txt")
                                       into a list I
       s=fin.read()
       l=s.split()
       for x in 1:
           if x[0].upper()=="A" and x[-1].upper()=="A":
       print("Number of words begining and ending with A/a ",c)
```

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4 def TRANSFER():
       fin=open("string.txt")
                                                find() returns -1 if the string
       fout=open("CLEAN.TXT","w")
                                                given as parameter does not
                                                exists in the string.
       s=fin.readline()
       while s:
            if s.upper().find("CLEAN")!=-1:
                 fout.write(s)
            s=fin.readline()
       fin.close()
       fout.close()
5 def REPLACE():
                                                  To modify contents of a text file, we
       fin=open("letter.txt")
                                                  read the contents into a variable, do
       s=fin.read()
                                                  the necessary changes and then
       str=s.replace("I","We")
                                                  write back to the file. When we
       fin.close()
                                                  open the file in "w" mode it will
       fout=open("letter.txt","w")
                                                  delete old contents
       fout.write(str)
       fout.close()
6 def CHANGE():
       fin=open("sample.txt")
       s=fin.read()
       str=s.title()
       fin.close()
       fout=open("sample.txt","w")
       fout.write(str)
       fout.close()
7 import os
  def deletion():
       fin=open("string.txt")
       fout=open("temp.txt","w")
       s=fin.read()
                                               To remove single occurrence of a word
       l=s.split()
                                               we could use the remove() function of
       for x in 1:
                                               the list. But here we transfer all words
                                               that is not TO, to another file and then
            if x.upper()!="T0":
                                               use remove() and rename() functions
                 fout.write(x+" ")
                                               of the os module
       fout.close()
       fin.close()
```

os.remove("string.txt")

os.rename("temp.txt","string.txt")