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#-----
#=> Part 1 cont: INSTRUCTIONS
#=> the following separates file name from its extension
#=> PLEASE double check correct. ifnot.text.ME.7-5-7.four.Se~@Ven.7.8!~>2>?4=1
#-----
mylist_playnames= []
for file in os.listdir(path):
    #print(path+ "\\ " + file)
    #next = path + "\\ " + file
    filename = file.split(".") #=> get names and file paths in any directory
    justname = filename[0]      #=> returns list and title in index 0
    print(justname)
    mylist_playnames.append(justname)
print(len(mylist_playnames))
#=>ANSWER
"""
    A Midsummer Nights Dream
    Alls Well That Ends Well
    Antony and Cleopatra
    As You Like It
    Comedy of Errors
    Cymbeline
    Hamlet
    Henry IV part 1
    Henry IV part 2
    Henry V
    Henry VI part 1
    Henry VI part 2
    Henry VI part 3
    Henry VIII
    King Lear
    Loves Labours Lost
    Macbeth
    Measure for Measure
    Much Ado About Nothing
    Othello the Moore of Venice
    Pericles
    Richard II
    Richard III
    Romeo and Juliet
    The Life and Death of Julius Caesar
    The Life and Death of King John
    The Merchant of Venice
    The Merry Wives of Windsor
    The Taming of the Shrew
    The Tempest
    The Tragedy of Coriolanus
    Timon of Athens
    Titus Andronicus
    Troilus and Cressida
    Twelfth Night
    Two Gentlemen of Verona
    Winters Tale
    37
"""
print(filename)          #['Winters Tale', 'txt']
print(justname)          # Winters Tale
print(type(filename))    #<class 'list'>
print(path+ "\\ " + file)
    #C:\Users\17574\Desktop\data_it304\shakespeare_txt_name\Winters Tale.txt
#=> INSTRUCTIONS: copy and paste here your path

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#=> urANSWER  
#
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#-----  
#=> Part 1 cont: INSTRUCTIONS  
#=> View the variable explorer. Do you have more than 2 names in it?  
#=> List ALL the files you have here  
#=> urANSWER  
#
```

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#-----  
  
#perform housekeeping  
del file; del filename; del justname  
print(type(mylist_playnames))      # <class 'list'>  
print(type(mylist_playnames[0]))   # <class 'str'>
```



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#-----
#=> 1g) send dict to df, export to spreadsheet, email to me
#-----
df1 = pd.DataFrame.from_dict(mydict)
df1.info()
df1
#make sure you put in a different directory
os.chdir('C:\\Users\\17574\\Desktop\\data_it304')
mywriter = pd.ExcelWriter('my_wk14_Project_Summary_Report.xlsx')
df1.to_excel(mywriter)
mywriter.save()

#=====
#=> Part 5 continue - create summary report by play type
#=====

#      Total all script words and title words by 3 play types
#      send to df to spreadsheet and email to me
#      Answer:
#      comedy  + history  + tragedy
#      371235  + 236820   + 270147   = 878202
#      53      + 35       + 33       = 121

comedy_script_words = 0 ; history_script_words = 0; tragedy_script_words = 0
comedy_title_words = 0; history_title_words = 0; tragedy_title_words = 0

i=0
while i <=36:
    if mylist_playnames[i] in comedy:
        comedy_script_words = comedy_script_words + mylist_words[i]
        comedy_title_words = comedy_title_words + mylist_words_title[i]
    if mylist_playnames[i] in history:
        history_script_words = history_script_words + mylist_words[i]
        history_title_words = history_title_words + mylist_words_title[i]
    if mylist_playnames[i] in tragedy:
        tragedy_script_words = tragedy_script_words + mylist_words[i]
        tragedy_title_words = tragedy_title_words + mylist_words_title[i]
    i = i+1

mydict2 = {"comedy_script_words":comedy_script_words,
           "history_script_words":history_script_words,
           "tragedy_script_words":tragedy_script_words,
           "comedy_title_words":comedy_title_words,
           "history_title_words":history_title_words,
           "tragedy_title_words":tragedy_title_words}

mydict2
# {'comedy_script_words': 371235,
#  'history_script_words': 236820,
#  'tragedy_script_words': 270147,
#  'comedy_title_words': 53,
#  'history_title_words': 35,
#  'tragedy_title_words': 33}

df2 = pd.DataFrame.from_dict(mydict2, orient='index')
df2.info()
df2
mywriter = pd.ExcelWriter('my_wk14_Project_total_words.xlsx')
df2.to_excel(mywriter)
mywriter.save()

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#-----  
#=> Future Team class work  
#-----  
#       Create an object with one or two functions.  
#       Ask user what play they want to read.  
#       Figure out a minimum of 1 other useful piece of information  
#       to display or include in user report.  
#       Have function export data  
#       you can simply email me the file!
```