“HomeWork11” Justin Minsk

1.

def backup(writefile):  
 newtitle = input('Enter new file name') # get new title  
 newtitle = newtitle + '.bak'  
 with open(writefile, 'r') as file: # read the old file  
 with open(newtitle, 'w') as title: # write the new file  
 for text in file: # read all of the text  
 text = text # save the text as a variable  
 title.write(text) # write the new file  
  
  
if \_\_name\_\_ == '\_\_main\_\_': # Run the rewrite  
 backup('test.txt')  
 # run using test.txt  
 # test.txt has:  
 # this is a text  
 # doc

2.

def make\_list(readfile):  
 hold\_list = [] # set up our lists  
 main\_list = []  
 with open(readfile, 'r') as file: # read out file  
 for line in file: # read each line  
 line = line.strip() # strip each line  
 hold\_list = line.split() # create a list for each line  
 main\_list.insert(len(main\_list), hold\_list) # add the list to the main list  
 print(main\_list) # show the outcome  
 return main\_list  
  
  
if \_\_name\_\_ == '\_\_main\_\_': # Run the rewrite  
 make\_list('alkaline\_metals.txt')

3.

import os.path  
  
  
def rewrite(writefile):  
 while os.path.isfile(writefile): # sees if the file exsits  
 overwrite = input('The file exists. Do you want to overwrite it (1), give it a new name (2), or cancel(3).')  
 # menu  
 if overwrite == '1':  
 print('I will overwrite the ' + writefile + ' file.')  
 with open(writefile, 'w') as file: # write over the file  
 newtext = input('Enter you new text') # get new text to put in the file  
 file.write(newtext) # write the new text into file  
 break # end loop  
 elif overwrite == '2':  
 print('I will now change the name of ' + writefile + ' file')  
 newtitle = input('Enter new file name with .txt') # get new title  
 with open(writefile, 'r') as file: # read the old file  
 with open(newtitle, 'w') as title: # write the new file  
 for text in file: # read all of the text  
 text = text # save the text as a variable  
 title.write(text) # write the new file  
 break # end loop  
 elif overwrite == '3':  
 return 'Canceling' # ends the rewrite  
 else:  
 print('Invalid key pressed') # print to let user know what they did wrong  
 continue # restart loop  
  
  
if \_\_name\_\_ == '\_\_main\_\_': # Run the rewrite  
 rewrite('test.txt') # run using test.txt  
 # test.txt has:  
 # this is a text  
 # doc

4.

def process\_file(file, output\_file):  
 with open(file, 'r') as r\_file: # read our file  
 with open(output\_file, 'w') as w\_file: # write over the new file  
 line = r\_file.readline().strip() # get the first line we formated  
 write\_line = '{0}'.format(line) # make sure it stays formated  
 w\_file.write(write\_line) # write the line into the csv  
 for line in r\_file: # read each line  
 line = line.strip() # strip each line  
 if 'Specimen' not in line: # if it does not contains Specimen  
 line = line.replace(' ', ',') # add a comma instead of a space  
 write\_line = '{0},'.format(line) # format it to end in a comma  
 w\_file.write(write\_line) # write the line  
 else:  
 write\_line = '\n{0},'.format(line) # if it contains Specimen it creates a new line then adds a  
 # comma at the end  
 w\_file.write(write\_line) # writes to the csv  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 process\_file('hanihara.txt', 'hanihara.csv')