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# Reading an excel file using Python
import xlrd

#C:\Users\dndou\OneDrive\Documents\ASU\Fall 2020\EGR 402\Agency Test Names.xlsx

# Give the location of the file
file_location = ("C:\Users\dndou\OneDrive\Documents\ASU\Z (2020-2021) Senior 2\Fall 2020\EGR 402\Agency Test Names.xlsx")

# To open Workbook
workbook = xlrd.open_workbook(file_location)
inputSheet = workbook.sheet_by_index(0)

#####
import xlwt
from xlwt import Workbook

# Workbook is created
wb = Workbook()

# add_sheet is used to create sheet.
outputSheet1 = wb.add_sheet('Sheet 1')

outputSheet1.write(0, 0, 'Agency')
outputSheet1.write(0, 1, 'Batch Number')
outputSheet1.write(0, 2, 'Agency Number')
outputSheet1.write(0, 3, 'Old Serial Number')
outputSheet1.write(0, 4, 'New Serial Scan')
outputSheet1.write(0, 5, 'Hand Scan')

#####
#(row,column)

i = 0
Max = inputSheet.nrows
print "Max:",Max

for i in range(inputSheet.nrows):

    if i == Max:
        break

    if i != Max:

        if i == 0:
            print(i)
            i = 1
            k = i-1

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j = i+1
p = i
t = 0

elif inputSheet.cell_value(i, 0) == inputSheet.cell_value(k, 0):

    print(i)
    print(k)

    if i > 6 and t < Max and inputSheet.cell_value(i, 0) ==
inputSheet.cell_value(k, 0):

        if m >= 6:

            if p > 6:
                i = t

                Agency = inputSheet.cell_value(i, 0)
                OldAB3_6 = inputSheet.cell_value(i, 1)
                print "i6:",i
                print "k:",k
                print(Agency)
                print "p:",p
                print "m:",m

                NewAB3_6 = raw_input("Scan 6th Barcode:")
                print "NewAB3_6:",NewAB3_6

                outputSheet1.write(i, 0, Agency)
                outputSheet1.write(i, 1, 'NewAB3_6')
                outputSheet1.write(i, 2, p)
                outputSheet1.write(i, 3, OldAB3_6)
                outputSheet1.write(i, 4, NewAB3_6)

                m = m-5
                p = p+1
                k = k+1

            if p >= 6:
                i = i+1
                t = i

        if m == 5:

            if p >= 6:
                i = t

                Agency = inputSheet.cell_value(i, 0)
                OldAB3_5 = inputSheet.cell_value(i, 1)

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print "i5:",i
print "k:",k
print(Agency)
print "p:",p
print "m:",m

NewAB3_5 = raw_input("Scan 5th Barcode:")
print "NewAB3_5:",NewAB3_5

outputSheet1.write(i, 0, Agency)
outputSheet1.write(i, 1, 'NewAB3 5')
outputSheet1.write(i, 2, p)
outputSheet1.write(i, 3, OldAB3_5)
outputSheet1.write(i, 4, NewAB3_5)

m = m+1
p = p+1
k = k+1

if p >= 6:
    i = i+1
    t = i

if m == 4:

    if p >= 6:
        i = t

Agency = inputSheet.cell_value(i, 0)
OldAB3_4 = inputSheet.cell_value(i, 1)
print "i4:",i
print "k:",k
print(Agency)
print "p:",p
print "m:",m

NewAB3_4 = raw_input("Scan 4th Barcode:")
print "NewAB3_4:",NewAB3_4

outputSheet1.write(i, 0, Agency)
outputSheet1.write(i, 1, 'NewAB3 4')
outputSheet1.write(i, 2, p)
outputSheet1.write(i, 3, OldAB3_4)
outputSheet1.write(i, 4, NewAB3_4)

m = m+1
p = p+1
k = k+1

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        if p >= 6:
            i = i+1
            t = i

    if m == 3:

        if p >= 6:
            i = t
        Agency = inputSheet.cell_value(i, 0)
        OldAB3_3 = inputSheet.cell_value(i, 1)
        print "i3:",i
        print "k:",k
        print(Agency)
        print "p:",p
        print "m:",m

        NewAB3_3 = raw_input("Scan 3rd Barcode:")
        print "NewAB3_3:",NewAB3_3

        outputSheet1.write(i, 0, Agency)
        outputSheet1.write(i, 1, 'NewAB3_3')
        outputSheet1.write(i, 2, p)
        outputSheet1.write(i, 3, OldAB3_3)
        outputSheet1.write(i, 4, NewAB3_3)

        m = m+1
        p = p+1
        k = k+1
        if p >= 6:
            i = i+1
            t = i

    if m == 2:

        if p >= 6:
            i = t

        print "i2:",i
        print "k:",k

        Agency = inputSheet.cell_value(i, 0)
        OldAB3_2 = inputSheet.cell_value(i, 1)
        print "i2:",i
        print "k:",k
        print(Agency)
        print "p:",p
        print "m:",m

        NewAB3_2 = raw_input("Scan 2nd Barcode:")

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print "NewAB3_2:",NewAB3_2

outputSheet1.write(i, 0, Agency)
outputSheet1.write(i, 1, 'NewAB3 2')
outputSheet1.write(i, 2, p)
outputSheet1.write(i, 3, OldAB3_2)
outputSheet1.write(i, 4, NewAB3_2)

m = m+1
p = p+1
k = k+1
if p >= 6:
    i = i+1
    t = i

if m == 1:
    if p >= 8:
        i = t
Agency = inputSheet.cell_value(i, 0)
OldAB3_1 = inputSheet.cell_value(i, 1)
print "i1:",i
print "k:",k
print(Agency)
print "p:",p
print "m:",m

NewAB3_1 = raw_input("Scan 1st Barcode:")
print "NewAB3_1:",NewAB3_1

outputSheet1.write(i, 0, Agency)
outputSheet1.write(i, 1, 'NewAB3 1')
outputSheet1.write(i, 2, p)
outputSheet1.write(i, 3, OldAB3_1)
outputSheet1.write(i, 4, NewAB3_1)

m = m+1
p = p+1
k = k+1
if p >= 6:
    i = i+1
    t = i

if i == 6:
    Agency = inputSheet.cell_value(i, 0)
    OldAB3_6 = inputSheet.cell_value(i, 1)
    print(Agency)
    print "p:",p

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NewAB3_6 = raw_input("Scan 6th Barcode: ")
print "NewAB3_6:",NewAB3_6

outputSheet1.write(i, 0, Agency)
outputSheet1.write(i, 1, 'NewAB3 6')
outputSheet1.write(i, 2, p)
outputSheet1.write(i, 3, OldAB3_6)
outputSheet1.write(i, 4, NewAB3_6)

i = i+1
k = i-1
m = 1
p = p+1

if i == 5:
    Agency = inputSheet.cell_value(i, 0)
    OldAB3_5 = inputSheet.cell_value(i, 1)
    print(Agency)

    NewAB3_5 = raw_input("Scan 5th Barcode: ")
    print "NewAB3_5:",NewAB3_5

    outputSheet1.write(i, 0, Agency)
    outputSheet1.write(i, 1, 'NewAB3 5')
    outputSheet1.write(i, 2, p)
    outputSheet1.write(i, 3, OldAB3_5)
    outputSheet1.write(i, 4, NewAB3_5)

    i = i+1
    k = i-1
    m = 0
    p = p+1

if i == 4:
    Agency = inputSheet.cell_value(i, 0)
    OldAB3_4 = inputSheet.cell_value(i, 1)
    print(Agency)

    NewAB3_4 = raw_input("Scan 4th Barcode: ")
    print "NewAB3_4:",NewAB3_4

    outputSheet1.write(i, 0, Agency)
    outputSheet1.write(i, 1, 'NewAB3 4')
    outputSheet1.write(i, 2, p)
    outputSheet1.write(i, 3, OldAB3_4)
    outputSheet1.write(i, 4, NewAB3_4)

    i = i+1
    k = i-1
    m = 0

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p = p+1

if i == 3:
    Agency = inputSheet.cell_value(i, 0)
    OldAB3_3 = inputSheet.cell_value(i, 1)
    print(Agency)

    NewAB3_3 = raw_input("Scan 3rd Barcode: ")
    print "NewAB3_3:",NewAB3_3

    outputSheet1.write(i, 0, Agency)
    outputSheet1.write(i, 1, 'NewAB3 3')
    outputSheet1.write(i, 2, p)
    outputSheet1.write(i, 3, OldAB3_3)
    outputSheet1.write(i, 4, NewAB3_3)

    i = i+1
    k = i-1
    m = 0
    p = p+1

if i == 2:
    Agency = inputSheet.cell_value(i, 0)
    OldAB3_2 = inputSheet.cell_value(i, 1)
    print(Agency)

    NewAB3_2 = raw_input("Scan 2nd Barcode: ")
    print "NewAB3_2:",NewAB3_2

    outputSheet1.write(i, 0, Agency)
    outputSheet1.write(i, 1, 'NewAB3 2')
    outputSheet1.write(i, 2, p)
    outputSheet1.write(i, 3, OldAB3_2)
    outputSheet1.write(i, 4, NewAB3_2)

    i = i+1
    k = i-1
    m = 0
    p = p+1

if i == 1:
    p = 1
    Agency = inputSheet.cell_value(i, 0)
    OldAB3_1 = inputSheet.cell_value(i, 1)
    print(Agency)
    print "p:",p

    NewAB3_1 = raw_input("Scan 1st Barcode:")
    print "NewAB3_1:",NewAB3_1

    outputSheet1.write(i, 0, Agency)

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        outputSheet1.write(i, 1, 'NewAB3_1')
        outputSheet1.write(i, 2, p)
        outputSheet1.write(i, 3, OldAB3_1)
        outputSheet1.write(i, 4, NewAB3_1)

        i = i+1
        k = i-1
        m = 0
        p = p+1

    elif inputSheet.cell_value(i, 0) != inputSheet.cell_value(k, 0):
        print(i)
        print(k)
        p = 1
        print "p:",p
        Agency = inputSheet.cell_value(i, 0)
        OldAB3_1 = inputSheet.cell_value(i, 1)
        print(Agency)

        NewAB3_1 = raw_input("Scan 1st Barcode:")
        print "NewAB3_1:",NewAB3_1

        outputSheet1.write(i, 0, Agency)
        outputSheet1.write(i, 1, 'NewAB3_1')
        outputSheet1.write(i, 2, p)
        outputSheet1.write(i, 3, OldAB3_1)
        outputSheet1.write(i, 4, NewAB3_1)

        i = i+1
        k = i-1
        m = 2
        p = p+1

#####
#####

wb.save('New Barcode Scans 1.xls')

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