import xlrd

import json

### RULES

member\_dict = { "person\_name": "x", "email": "y", "group":"z" }

member\_list = [] ### [member\_dict]

group\_dict = {} ### {"group": {group\_name": "G" , "members": member\_list} }

group\_list = [] ### [group\_dict]

groups\_struc = {}

groups\_struc['groups'] = [] ### [group\_dict]

###

def find\_all\_persons\_and\_groups(xlf):

### READ EXCEL FILE AND RETURN NUMBER OF ROWS

wb = xlrd.open\_workbook(xlf)

sheet = wb.sheet\_by\_index(0)

number\_rows = sheet.nrows

all\_members = []

for r in range(number\_rows):

if r > 0: ### first row contains columns names

COL\_A = sheet.cell\_value(r, 0) #### column A

COL\_B = sheet.cell\_value(r, 1) #### column B

COL\_C = sheet.cell\_value(r, 2) #### column C

member\_dict["group"] = COL\_A

member\_dict["person\_name"] = COL\_B

member\_dict["email"] = COL\_C

all\_members.append(member\_dict.copy())

return all\_members

###

def make\_list\_of\_groups(membr\_list):

all\_groups = []

mem = None

for rec in membr\_list:

g = rec["group"]

if mem != g:

all\_groups.append(g)

mem = g

return all\_groups

###

def attach\_members\_to\_groups(group\_name, membr\_list):

membr\_dict = {}

all\_group\_members = [membr\_dict]

for membr in membr\_list:

if membr["group"] == group\_name:

#print(membr)

if membr["person\_name"] != None:

membr\_dict["person\_name"] = membr["person\_name"]

membr\_dict["email"] = membr["email"]

all\_group\_members.append(membr\_dict.copy())

return all\_group\_members

###

#### MAIN ####

def main():

#member\_list = find\_all\_persons\_and\_groups("webex\_groups\_gr.xlsx")

#member\_list = find\_all\_persons\_and\_groups("webex\_devops.xlsx")

member\_list = find\_all\_persons\_and\_groups("webex\_groups.xlsx")

group\_list = make\_list\_of\_groups(member\_list)

all\_members = []

for group\_rec in group\_list:

all\_members = attach\_members\_to\_groups(group\_rec, member\_list)

del all\_members[0] #### delete the first element, which is a copy of the last element

group\_dict["group"] = { "group": {"group\_name": group\_rec , "members": all\_members }}

groups\_struc['groups'].append(group\_dict["group"])

js\_groups = json.dumps(groups\_struc)

#### execute main() when called directly

if \_\_name\_\_ == '\_\_main\_\_':

main()