Código 1

x = [ [5,2,3], [10,8,9] ]

students = [

    {'first\_name':  'Michael', 'last\_name' : 'Jordan'},

    {'first\_name' : 'John', 'last\_name' : 'Rosales'}

]

sports\_directory = {

    'basketball' : ['Kobe', 'Jordan', 'James', 'Curry'],

    'soccer' : ['Messi', 'Ronaldo', 'Rooney']

}

z = [ {'x': 10, 'y': 20} ]

x[1][0] = 15

print(x)

students[0]["last\_name"] = "Bryant"

print(students)

sports\_directory["soccer"][0] = "Andres"

print(sports\_directory)

z[0]["y"] = 30

print(z)

código 2

students = [

        {'first\_name':  'Michael', 'last\_name' : 'Jordan'},

        {'first\_name' : 'John', 'last\_name' : 'Rosales'},

        {'first\_name' : 'Mark', 'last\_name' : 'Guillen'},

        {'first\_name' : 'KB', 'last\_name' : 'Tonel'}

    ]

for i in range(len(students)):

    print("first\_name - " + students[i]['first\_name'] + ",", "Last\_name - " + students[i]['last\_name'])

código 3

def iterateDictiornary2(keyName, someList):

    for i in range(len(someList)):

        print(someList[i][keyName])

students = [

        {'first\_name':  'Michael', 'last\_name' : 'Jordan'},

        {'first\_name' : 'John', 'last\_name' : 'Rosales'},

        {'first\_name' : 'Mark', 'last\_name' : 'Guillen'},

        {'first\_name' : 'KB', 'last\_name' : 'Tonel'}

    ]

iterateDictiornary2("first\_name", students)

código 4

dojo = {

    'locations': ['San Jose', 'Seattle', 'Dallas', 'Chicago', 'Tulsa', 'DC', 'Burbank'],

    'instructors': ['Michael', 'Amy', 'Eduardo', 'Josh', 'Graham', 'Patrick', 'Minh', 'Devon']

}

def printInfo(dict):

    for i in dict:

        print(i, len(dict[i]))

        for j in dict[i]:

            print(j)

printInfo(dojo)