#INDEXING

#Requesting data from lists!!!

#Lists01 Calling one specific value

print ('#Lists01')

L01 = ["cat", "bat", "rat", "elephant"]

print (L01 [1])

print()

#Lists02 Calling specific values in 2 lists

print ('#Lists02')

L02 = [['cat', 'bat'], [10, 20, 30, 40, 50]]

print (L02[0])

print (L02[0][1])

print (L02[1][4])

print ()

#Lists03 Calling out a specific value counting from the back

print ('#Lists03')

L03 = ['cat', 'bat', 'rat', 'elephant']

print (L03[-1])

print (L03[-3])

print ('The ' + L03[-1] + ' is afraid of the ' + L03[-3] + '.')

print()

#Lists04 Calling out a series of values

print ('#Lists04')

L04 = ['cat', 'bat', 'rat', 'elephant']

print (L04[0:4])

print (L04[1:3])

print (L04[0:-1])

print (L04[:2])

print (L04[1:])

print (L04[:])

print (len(L04))

print ()

#Lists05 Changing the values within the list

print ('#Lists05')

L05 = ['cat', 'bat', 'rat', 'elephant']

print (L05)

L05[1]= 'ant'

print (L05)

L05[-1]= 'dog'

print (L05)

print ()

#List06 Replication and concatenation

print ('#Lists06')

L06 = [1, 2, 3] + ['A', 'B', 'C']

print (L06)

print ((L06)\*3)

print ()

#List07 Removing values with del

print ('#Lists07')

L07 = ['cat', 'bat', 'rat', 'elephant']

print (L07)

del L07[2]

print (L07)

del L07[2]

print (L07)