import numpy as np

matrix = np.arange(15).reshape((5, 3)) + 1  
matrix

array([[ 1, 2, 3],  
 [ 4, 5, 6],  
 [ 7, 8, 9],  
 [10, 11, 12],  
 [13, 14, 15]])

matrix.shape

(5, 3)

# 3th column  
len(matrix[:, 2])

5

# 2nd row  
len(matrix[1, :])

3

f = open("../data/Q5.txt", "r")  
f.read()  
f.close()

f = open("../data/Q5\_write.txt", "w")  
f.write(f'{matrix}')  
f.close()

keywords = ['In', 'Out', 'get\_ipython', 'exit', 'quit', 'symbol', 'value', 'open']  
  
for local\_var in list(locals()):  
 if not local\_var.startswith('\_\_') and not local\_var.startswith("\_") and not local\_var in keywords:  
 print(local\_var)

np  
matrix  
f  
local\_var  
keywords