# -\*- coding: utf-8 -\*-

"""

Created on Wed Oct 14 15:46:35 2020

@author: danny

"""

import numpy as np

nums=np.arange(1,51,1)

nums=np.reshape(nums,(5,10))

print(nums)

# -\*- coding: utf-8 -\*-

"""

Created on Wed Oct 14 16:25:24 2020

@author: danny

"""

import numpy as np

nums=np.arange(2,11,1)

nums=np.reshape(nums,(3,3))

print(nums)

# -\*- coding: utf-8 -\*-

"""

Created on Wed Oct 21 14:17:10 2020

@author: danny

"""

import numpy as np

a=np.arange(0,6,1)

a=np.reshape(a,(3,2))

print(a)

# -\*- coding: utf-8 -\*-

"""

Created on Wed Oct 21 14:23:25 2020

@author: danny

"""

import numpy as np

a=np.arange(1,13,1)

a=a.reshape(3,4)

print('before')

print(a)

a=a\*3

print('after')

print(a)

# -\*- coding: utf-8 -\*-

"""

Created on Wed Oct 21 14:29:17 2020

@author: danny

"""

import numpy as np

A=np.ones((3,2))\*2

B=np.array([[1,4],[2,5],[3,6]])

print('A:\n',A)

print('B:\n',B)

print('A+B:\n',A+B)

print('A-B:\n',A-B)

print('A\*B:\n',A\*B)

print('A/B:\n',A/B)

print('A轉至:\n',A.transpose())

print('B轉至:\n',B.transpose())