#随机生成整型、浮点型、字符串、字典

#导入MongoDB

#绘制散点图

import string

import random

from pymongo import MongoClient

import pandas as pd

import numpy as num

import matplotlib.pyplot as pl

link = MongoClient('localhost')

hq = link.random\_num

start = hq.myrandom

start.remove(None)

def Random(i):

while i!=0:

rand\_str = ''.join(random.sample(string.ascii\_letters + string.digits,10))

rand=random.randint(1,100000)

key=random.choice(string.ascii\_letters)

dict1={key:rand}

dict2={key:rand\_str}

tup1 = (rand\_str,rand,dict1,dict2)

yield tup1

randomNumber = {

'整型': rand,

'字符': rand\_str,

'字典1': dict1,

'字典2':dict2,

}

start.insert\_one(randomNumber)

i= i - 1

return 'done'

h = Random(100000)

q = open("love.txt", "w", encoding="utf-8")

while True :

try:

y = next(h)

print(y, file = q)

except StopIteration as a:

print(a.value)

break

q.close()

m = num.arange(1,100001)

client = pymongo.MongoClient('localhost', 27017)

hq = client['random\_num']

table = hq['myrandom']

data = pd.DataFrame(list(start.find()))

n = data['整型']

fig = pl.figure()

ax = fig.add\_subplot(111)

ax.set\_title('Scatter int')

ax.scatter(m,n,c = 'g',marker = 'o')

pl.show()