from captcha.image import ImageCaptcha

import numpy as np

import matplotlib.pyplot as plt

from PIL import Image

import random

import os

#----------INTIALIZATION------------------

number = ('0','1','2','3','4','5','6','7','8','9','A','B','C','D','E','F',

'G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U',

'V','W','X','Y','Z')

MAX\_CAPTCHA=5

WIDTH=200

HEIGHT=100

#-------------DESCRIPTION OF THE IMAGECAPTCHA--------------

image=ImageCaptcha(width=WIDTH,height=HEIGHT,font\_sizes=[30])

#----------EMPTY LIST0------------------

captcha\_text=[]

#------------FOR GENERATING RANDOM NUMBERS-------------

for i in range(MAX\_CAPTCHA):

c=random.choice(number)

captcha\_text.append (c)

captcha\_text=''.join(captcha\_text)

a=captcha\_text #PRINTS THE VALUE OF A

#--------------CONVERTING TEXT TO IMAGE------------

captcha=image.generate(captcha\_text)

captcha\_image=Image.open(captcha)

captcha\_image=np.array(captcha\_image)

print("text based captcha using python")

#---------PLOTTING OF THE GRAPH------------------

image.write(captcha\_text, str(i)+'\_'+captcha\_text + '.png')

plt.imshow(captcha\_image)

plt.show()

#----------VERIFICATION-----------------

a=captcha\_text

User\_input=input("Enter the Above Captcha text=")

if User\_input==a:

print('Captcha Matched')

else:

print('Incorrect Captcha typed')