```python
from captcha.image import ImageCaptcha
from captcha.audio import AudioCaptcha
import matplotlib.pyplot as plt
import random

number_list = ['0','1','2','3','4','5','6','7','8','9']

alphabet_lowercase = ['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']

alphabet_uppercase = ['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']

def create_random_captcha_text(captcha_string_size=10):

    captcha_string_list = []

    base_char = alphabet_lowercase + alphabet_uppercase + number_list

    for i in range(captcha_string_size):

        char = random.choice(base_char)

        captcha_string_list.append(char)

    captcha_string = ''

    for item in captcha_string_list:
        captcha_string += str(item)

    return captcha_string

def create_random_digital_text(captcha_string_size=10):

    captcha_string_list = []
    for i in range(captcha_string_size):
        char = random.choice(number_list)
        captcha_string_list.append(char)

    captcha_string = ''

    for item in captcha_string_list:
        captcha_string += str(item)

    return captcha_string

def create_image_captcha(captcha_text):
    image_captcha = ImageCaptcha()
    image = image_captcha.generate_image(captcha_text)

    image_captcha.create_noise_curve(image, image.getcolors())

    image_captcha.create_noise_dots(image, image.getcolors())

    image_file = "./captcha_"+captcha_text + ".png"
    image_captcha.write(captcha_text, image_file)

    plt.imshow(image)
    plt.show()

    print(image_file + " has been created.")

def create_audio_captcha():

    audio_captcha = AudioCaptcha()

    captcha_text = create_random_digital_text()
```

```
        audio_data = audio_captcha.generate(captcha_text)

        audio_file = "./captcha_"+captcha_text+'.wav'
        audio_captcha.write(captcha_text, audio_file)

        print(audio_file + " has been created.")

if __name__ == '__main__':
    captcha_text = create_random_captcha_text()

    create_image_captcha(captcha_text)

    create_audio_captcha()
```
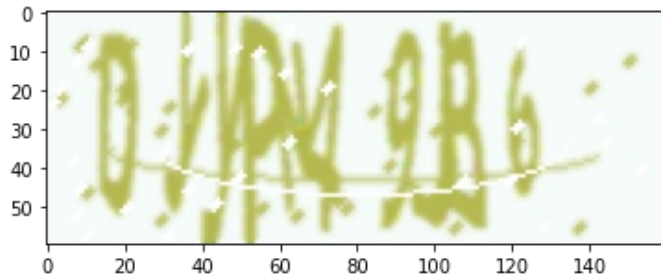


```
./captcha_DyyPN49JB6.png has been created.
./captcha_0647583739.wav has been created.
```

In [ ]:

In [ ]: