

```
In [1]: import imageio
```

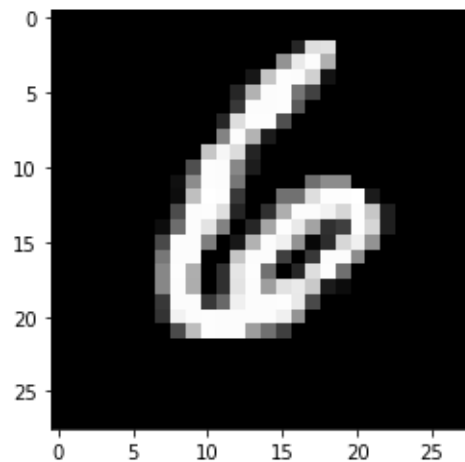
```
In [2]: img = imageio.imread('image6_1.png')
```

```
In [3]: import numpy as np
```

```
In [4]: gray = np.dot(img[..., :3], [0.299, 0.587, 0.114])
```

```
In [5]: import matplotlib.pyplot as plt
```

```
In [6]: plt.imshow(gray, cmap = plt.get_cmap('gray'))  
plt.show()
```



```
In [7]: gray = gray.reshape(-1, 28, 28, 1)  
gray = gray / 255
```

```
In [8]: from keras.models import load_model  
model = load_model('model.h5')
```

Using TensorFlow backend.

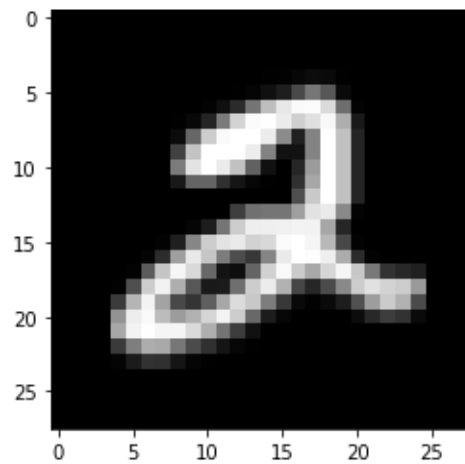
```
In [9]: prediction = model.predict(gray)
```

```
In [10]: print('Predicted value:', prediction.argmax())
```

Predicted value: 6

```
In [11]: img = imageio.imread('image2.png')  
gray = np.dot(img[..., :3], [0.299, 0.587, 0.114])
```

```
In [12]: plt.imshow(gray, cmap = plt.get_cmap('gray'))  
plt.show()
```



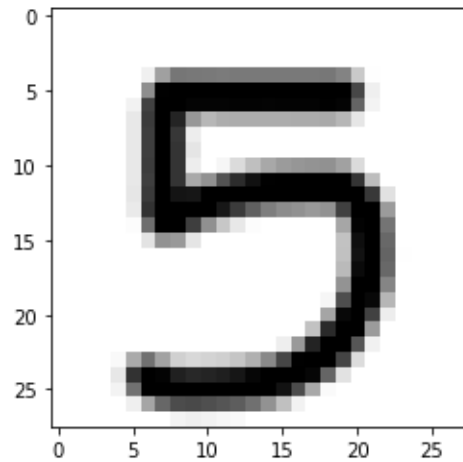
```
In [13]: gray = gray.reshape(-1, 28, 28, 1)  
gray = gray / 255
```

```
In [14]: prediction = model.predict(gray)
```

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In [15]: print('Predicted value:', prediction.argmax())
```

Predicted value: 2

```
In [16]: img = imageio.imread('image5_2.png')
gray = np.dot(img[..., :3], [0.299, 0.587, 0.114])
plt.imshow(gray, cmap = plt.get_cmap('gray'))
plt.show()
```



```
In [17]: gray = gray.reshape(-1, 28, 28, 1)
gray = gray / 255
prediction = model.predict(gray)
print('Predicted value:', prediction.argmax())
```

Predicted value: 5

In [ ]: