## Import necessary libraries

```
import requests
import numpy as np
from PIL import Image, ImageOps
import matplotlib.pyplot as plt
```

## Input pre-processing

```
In [10]:
img = Image.open(f"../sample/sample 1.png").convert("L")
img = ImageOps.invert(img)
img = img.resize((28, 28))
img arr = np.array(img)
img arr = img arr / 255.0
img arr = img arr.reshape(28, 28, 1)
img2 = Image.open(f"../sample/sample 2.png").convert("L")
img2 = ImageOps.invert(img2)
img2 = img2.resize((28, 28))
img2 arr = np.array(img2)
img2 arr = img2 arr / 255.0
img2 arr = img2 arr.reshape(28, 28, 1)
img3 = Image.open(f"../sample/sample 3.png").convert("L")
img3 = ImageOps.invert(img3)
img3 = img3.resize((28, 28))
img3 arr = np.array(img3)
img3 arr = img3 arr / 255.0
img3_arr = img3_arr.reshape(28, 28, 1)
```

## Get results from the deployed model

## **Display results**

```
plt.imshow(plt.imread("../sample/sample 1.png"))
plt.axis('off')
plt.show()
print("Result: ",
response scoring.json()['predictions'][0]['values'][0][1])
```

In [12]:



Result: 2

```
plt.imshow(plt.imread("../sample/sample 2.png"))
plt.axis('off')
plt.show()
print("Result: ",
response_scoring.json()['predictions'][0]['values'][1][1])
```

In [15]:



Result: 7

```
plt.imshow(plt.imread("../sample/sample 3.png"))
plt.axis('off')
plt.show()
print("Result: ",
response_scoring.json()['predictions'][0]['values'][2][1])
```



Result: 8