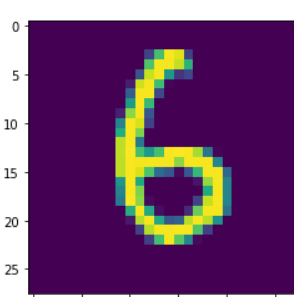


**Project Development Phase**  
**Model Performance Test**

Date	18 November 2022
Team ID	PNT2022TMID18492
Project Name	A Novel Method For Handwritten Digit Recognition
Maximum Marks	10 Marks

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

2.	Preprocess and Train the model	Using data augmentation and train test split method	<pre>import tensorflow as tf (x_train, y_train), (x_test, y_test) = tf.keras.datasets.mnist.load_data()</pre> <p>Downloading data from https://storage.googleapis.com/tensorflow/tf-keras-datasets/mnist.npz  11493376/11490434 [=====] - 0s 0us/step  11581568/11490434 [=====] - 0s 0us/step</p> <pre>x_train = x_train.reshape(x_train.shape[0], 28, 28, 1) x_test = x_test.reshape(x_test.shape[0], 28, 28, 1) input_shape = (28, 28, 1)</pre> <pre>x_train = x_train.astype('float32') x_test = x_test.astype('float32')</pre> <pre>x_train /= 255 x_test /= 255</pre>
3.	Test the model	By loading the pretrained model and predicting the results	<pre>]:</pre> <pre>print("The label value is ",y_test[21]) plt.imshow(X_test[21])</pre> <p>The label value is 6</p> <pre>]:</pre> 

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