MNIST Digit Recognition – OCTAVE

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**Neural Network Implementation**

**Architecture :**

Output Layer (10 Units)

Hidden Layer1 (50 units)

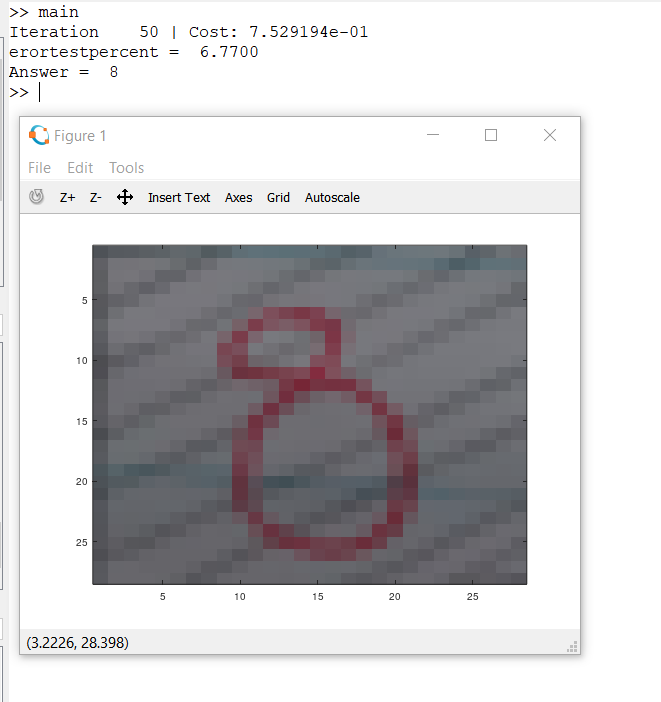
Hidden Layer2 (50 units)

Input Layer (784 Units)

**Optimising Algorithm** : ***fmincg***

**Random Initialisation** : theta C [ -epsilon,epsilon] where epsilon = 0.2

**Regularisation Parameter:** l = 15.0



Final Output with the input as given below