**Experiment-1:**

No.of layer : 2

No.of neurons in layer1 : 128

Activation : relu

No.of neurons in layer2(output) : 10

Activation : softmax

Optimizer : Adam

Loss : categorical\_crossentropy

Metrics : accuracy

Epochs : 10

Batch\_size : 64

Output :

Accuracy : 0.0968

Loss: 2.3026

**Experiment-2:**

Hyperparameters :

Optimizer : sgd

Output :

Accuracy: 0.0968

Loss: 2.3065

**Experiment-3:**

Hyperparameters :

One more layer with 256 neurons is added

Optimizer : sgd

Output :

Accuracy: 0.1019

Loss: 2.3026

**Experiment-4:**

Hyperparameters :

Optimizer : sgd changed to Adam

Output :

Accuracy: 0.1556

Loss: 2.2091

**Experiment-5:**

Hyperparameters :

Optimizer : Adam

Epochs : increased from 10 to 30

Output :

Accuracy: 0.1027

Loss: 2.3028

Experiment-6:

Model.evalute(X\_train,y\_train)  
accuracy: 0.2001 - loss: 2.0426