## Name: Sindhuja Kasagoni

```
In [11]: sgd = SGD(learning_rate=0.01, momentum=0.9, decay=1e-6)
model.compile(loss='categorical_crossentropy', optimizer=sgd, metrics=['accuracy'])
        print(model.summary())
        Model: "sequential_1"
         Layer (type) 0
                                  Output Shape Param #
         conv2d_2 (Conv2D)
                                 (None, 32, 32, 32)
         dropout_2 (Dropout)
                                (None, 32, 32, 32)
                               (None, 32, 32, 32)
         conv2d_3 (Conv2D)
                                                         9248
         max_pooling2d_1 (MaxPooling (None, 16, 16, 32) 2D)
         flatten_1 (Flatten)
                                (None, 8192)
                               (None, 512)
         dense_2 (Dense)
                                                        4194816
         dropout_3 (Dropout)
                                (None, 512)
                                 (None, 10)
        Total params: 4,210,090
Trainable params: 4,210,090
```

Model: "sequential_2"		
Layer (type)	Output Shape	Param #
conv2d_4 (Conv2D)	(None, 32, 32, 32)	896
dropout_4 (Dropout)	(None, 32, 32, 32)	0
conv2d_5 (Conv2D)	(None, 32, 32, 32)	9248
max_pooling2d_2 (MaxPooling 2D)	(None, 16, 16, 32)	0
conv2d_6 (Conv2D)	(None, 16, 16, 64)	18496
dropout_5 (Dropout)	(None, 16, 16, 64)	0
conv2d_7 (Conv2D)	(None, 16, 16, 64)	36928
<pre>max_pooling2d_3 (MaxPooling 2D)</pre>	(None, 8, 8, 64)	0
conv2d_8 (Conv2D)	(None, 8, 8, 128)	73856
dropout_6 (Dropout)	(None, 8, 8, 128)	0
conv2d_9 (Conv2D)	(None, 8, 8, 128)	147584

