





s/epoch - 2ms/step

Out[38]: [0.19591995176639557, 0.9412999749183655]

Plots

In [39]: `import matplotlib.pyplot as plt`

Plots for different kernel initializers

```
In [40]: training_accuracy0 = history.history['sparse_categorical_accuracy']
validation_accuracy0 = history.history['val_sparse_categorical_accuracy']

training_accuracy1 = history1.history['sparse_categorical_accuracy']
validation_accuracy1 = history1.history['val_sparse_categorical_accuracy']

training_accuracy2 = history2.history['sparse_categorical_accuracy']
validation_accuracy2 = history2.history['val_sparse_categorical_accuracy']

training_accuracy3 = history3.history['sparse_categorical_accuracy']
validation_accuracy3 = history3.history['val_sparse_categorical_accuracy']

training_accuracy4 = history4.history['sparse_categorical_accuracy']
validation_accuracy4 = history4.history['val_sparse_categorical_accuracy']

training_accuracy5 = history5.history['sparse_categorical_accuracy']
validation_accuracy5 = history5.history['val_sparse_categorical_accuracy']

training_accuracy6 = history6.history['sparse_categorical_accuracy']
validation_accuracy6 = history6.history['val_sparse_categorical_accuracy']

training_accuracy7 = history7.history['sparse_categorical_accuracy']
validation_accuracy7 = history7.history['val_sparse_categorical_accuracy']

training_accuracy8 = history8.history['sparse_categorical_accuracy']
validation_accuracy8 = history8.history['val_sparse_categorical_accuracy']

epochs_range=range(100)

plt.figure(figsize=(8, 8))
plt.subplot(1, 2, 1)
plt.plot(epochs_range, training_accuracy0, label='Train Acc for Baseline')
plt.plot(epochs_range, training_accuracy1, label='Train Acc for Model1')
plt.plot(epochs_range, training_accuracy2, label='Train Acc for Model2')
plt.plot(epochs_range, training_accuracy3, label='Train Acc for Model3')
plt.plot(epochs_range, training_accuracy4, label='Train Acc for Model4')
plt.plot(epochs_range, training_accuracy5, label='Train Acc for Model5')
plt.plot(epochs_range, training_accuracy6, label='Train Acc for Model6')
plt.plot(epochs_range, training_accuracy7, label='Train Acc for Model7')
plt.plot(epochs_range, training_accuracy8, label='Train Acc for Model8')
plt.legend(loc='lower right')
plt.title('Training Accuracy For All Models')

plt.subplot(1, 2, 2)
plt.plot(epochs_range, validation_accuracy0, label='Val Acc for Baseline')
plt.plot(epochs_range, validation_accuracy1, label='Val Acc for Model1')
plt.plot(epochs_range, validation_accuracy2, label='Val Acc for Model2')
plt.plot(epochs_range, validation_accuracy3, label='Val Acc for Model3')
plt.plot(epochs_range, validation_accuracy4, label='Val Acc for Model4')
plt.plot(epochs_range, validation_accuracy5, label='Val Acc for Model5')
plt.plot(epochs_range, validation_accuracy6, label='Val Acc for Model6')
plt.plot(epochs_range, validation_accuracy7, label='Val Acc for Model7')
plt.plot(epochs_range, validation_accuracy8, label='Val Acc for Model8')
plt.legend(loc='lower right')
plt.title('Validation Accuracy For All Models')
plt.show()
```

