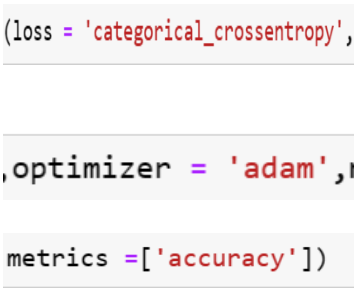
Project Development Phase
Model Performance Test

Date	16 November 2023
Team ID	Team- 591954
Project Name	Weather Classification Using Deep Learning
Maximum Marks	10 Marks

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Model Summary	**Model Name:** Weather classification using Deep Learning**.** **Description:** Deep learning techniques to classify weather patterns accurately. Through neural network architecture, it transforms diverse meteorological data into actionable insights, enhancing weather forecasting precision. **Architecture:** convolutional neural network (CNN) **Layers:** VGG16, Sequential, Dense, Flatten. **Hyperparameters:** batch-size = 16 **Training Data:** 1500 images of five classes(cloudy,sunny,rainy,foggy, sunrise). **Validation Data size:** 30 images of five classes.	

		Pre-trained Model: VGG 16 **Framework/Libraries:** Tensorflow, Keras, Numpy, Pandas **Loss Function:** categorical cross-entropy **Optimizer:** adam **Metrics:** Accuracy	
2.	Accuracy	Training Accuracy – 99.27 Validation Accuracy – 96.67