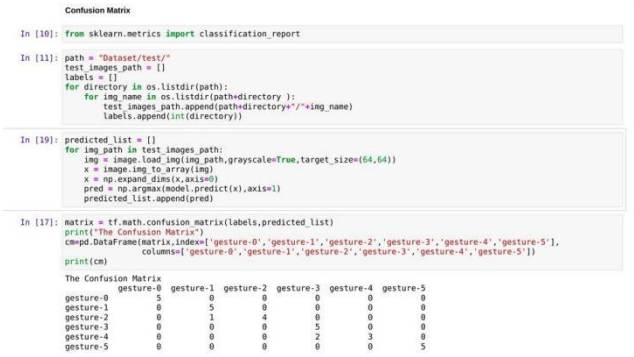
Project Development Phase Model

Performance Test

Date	20 NOvember 2022
Team ID	PNT2022TMID15152
Project Name	A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	10 Marks

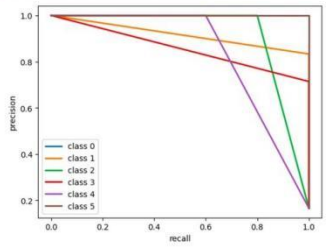
Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Metrics	**Classification Model:** Confusion Matrix - , Accuray Score- & Classification Report -	**Confusion Matrix:**  **Accuracy Score:** **Classification Report-**

			Classification Report
			
			In [66]: `print(classification_report(labels, predicted_list))`
			
			`precision recall f1-score support`
			
			`0 1.00 1.00 1.00 5`
			`1 0.83 1.00 0.91 5`
			`2 1.00 0.80 0.89 5`
			`3 0.71 1.00 0.83 5`
			`4 1.00 0.60 0.75 5`
			`5 1.00 1.00 1.00 5`
			
			`accuracy 0.90 30`
			`macro avg 0.92 0.90 0.90 30`
			`weighted avg 0.92 0.90 0.90 30`

Precision Recall Graph

Precision Recall Graph

```
In [123]: n_classes = 6
          precision = dict()
          recall = dict()
          for i in range(n_classes):
              precision[i], recall[i], _ = precision_recall_curve(y_test[:, :,i],
                                                                  predicted_prob[:, :,i])
              plt.plot(recall[i], precision[i], lw=2, label='class {}'.format(i))
          plt.xlabel("recall")
          plt.ylabel("precision")
          plt.legend()

Out[123]: <matplotlib.legend.Legend at 0x7fc50e3566d0>
```