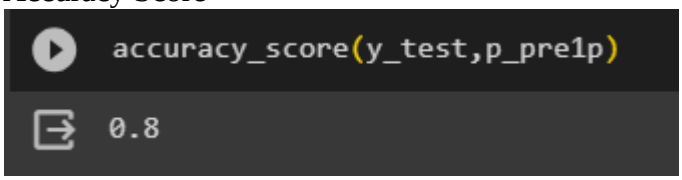
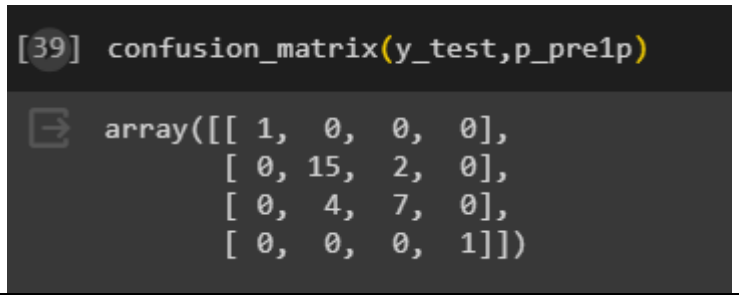
Project Development Phase
Model Performance Test

Date	1 November 2023
Team ID	593213
Project Name	Lymphography Classification using ML
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot

1.	Metrics	**Regression Model:** MAE - , MSE - , RMSE - , R2 score -
		
		Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -
			Random Forest Classifier is used as the model
			Classification Report of test data
			`print("classification_report of test data")`
			`print(classification_report(y_true=y_test, y_pred=p_pre1p))`
			`classification_report of test data`
			`precision recall f1-score support`
			`1 1.00 1.00 1.00 1`
			`2 0.79 0.88 0.83 17`
			`3 0.78 0.64 0.70 11`
			`4 1.00 1.00 1.00 1`
			`accuracy 0.80 30`
			`macro avg 0.89 0.88 0.88 30`
			`weighted avg 0.80 0.80 0.80 30`
			
			Classification Report of train data
			`print("classification_report for train data")`
			`print(classification_report(y_true=y_train, y_pred=p_pre1t))`
			`classification_report for train data`
			`precision recall f1-score support`
			`1 1.00 1.00 1.00 1`
			`2 0.95 0.98 0.97 64`
			`3 0.98 0.94 0.96 50`
			`4 1.00 1.00 1.00 3`
			`accuracy 0.97 118`
			`macro avg 0.98 0.98 0.98 118`
			`weighted avg 0.97 0.97 0.97 118`

			Accuracy Score  Confusion Matrix 
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	No Hyperparameter Tuning is used