## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID24864
Project Name	Project – Detection of Parkinson's disease using machine 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.	Metrics	Classification Model: Confusion Matrix -	<pre>predictions = model.predict(X_test)  cm = confusion_matrix(y_test, predictions).flatten() print(cm) (tn, fp, fn, tp) = cm  [14  1  4  11]  accuracy = (tp + tn) / float(cm.sum()) print(accuracy)  [14  1  4  11] 0.8333333333333333333333333333333333333</pre>	
		Accuracy Score-		
		Classification Report –	from sklearn.metrics import classification_report print(classification_report(y_test, predictions))  precision recall f1-score support  0	
2.	Tune the Model	Hyperparameter Tuning - model = RandomForestClassifier(n_es model.fit(X_train, y_train)		
		Validation Method -	<pre>model = RandomForestClassifier() rf_random = RandomizedSearch(V(estimator = model,</pre>	