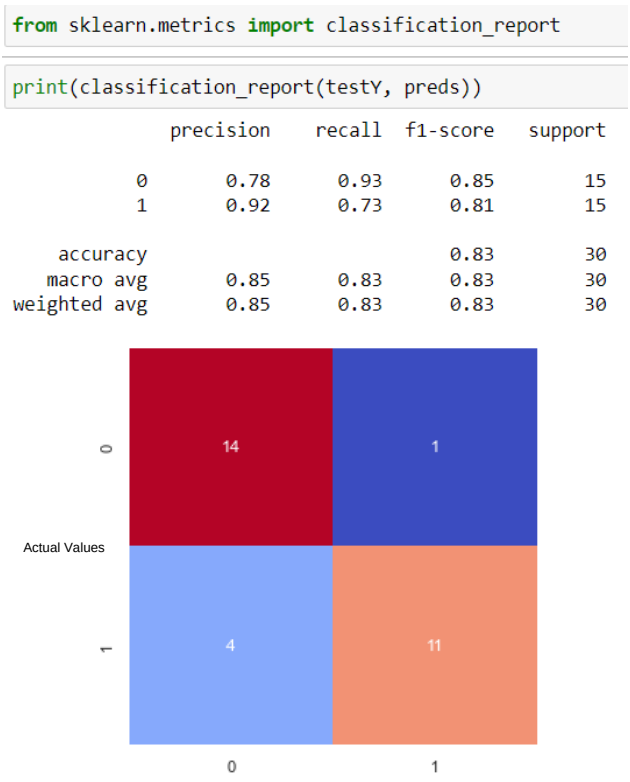
Project Development Phase
Model Performance Test

Date	15 November 2022
Team ID	PNT2022TMID52690
Project Name	Project – Detecting 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:** Ensemble Model(Voting Classifier)-KNN(K-Nearest Neighbor,Decision Tree,Random Forest) Confusion Matrix , Accuray Score- 95.93% & Classification Report	

```
from sklearn.metrics import classification_report

print(classification_report(testY, preds))
```

	precision	recall	f1-score	support
0	0.78	0.93	0.85	15
1	0.92	0.73	0.81	15
accuracy			0.83	30
macro avg	0.85	0.83	0.83	30
weighted avg	0.85	0.83	0.83	30

2.	Tune the Model	Hyperparameter Tuning – Grid SearchCV,Finding best estimators for each algorithm in ensemble model Validation Method – Cross Validation