Project Development Phase
Model Performance Test

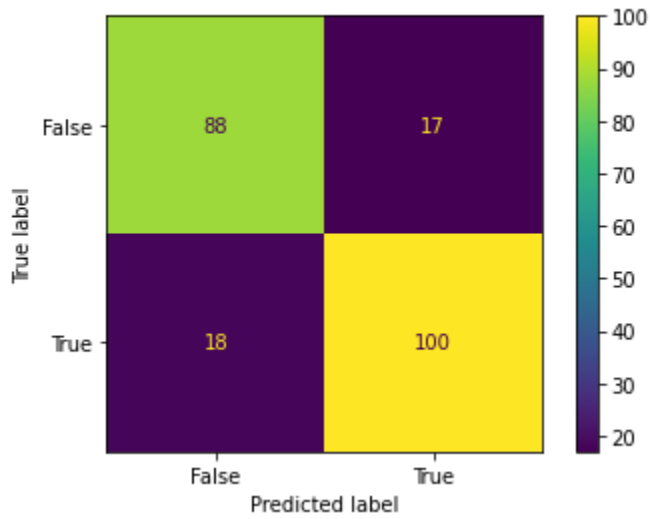| Date	10 November 2022
Team ID	PNT2022TMID04175
Project Name	Smart Lender - Applicant Credibility Prediction for Loan Approval
Maximum Marks	10 Marks

Model Performance Testing:

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

S.No.	Parameter	Values
1.	Metrics	**Classification Model: Decision Tree** Accuracy Score - 84% **Classification Report** ``` precision recall f1-score support
0   0.83   0.84   0.83   105
1   0.85   0.85   0.85   118```
2.		**Classification Model: Random Forest** Accuracy Score - 84% **Classification Report** ``` precision recall f1-score support
0   0.89   0.81   0.85   105
1   0.84   0.91   0.87   118```
3.		**Classification Model: KNN** Accuracy Score - 78% **Classification Report** ``` precision recall f1-score support
0   0.82   0.70   0.76   105
1   0.77   0.86   0.81   118```
4.		**Classification Model: XGBoost** Accuracy Score - 85% **Classification Report** ``` precision recall f1-score support
0   0.90   0.77   0.83   105
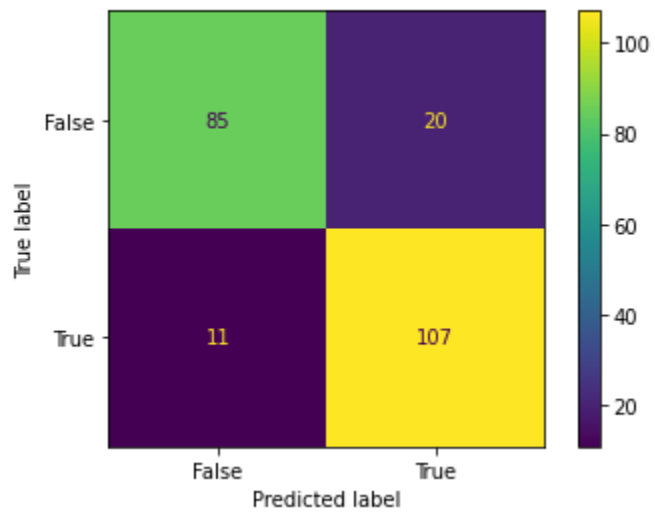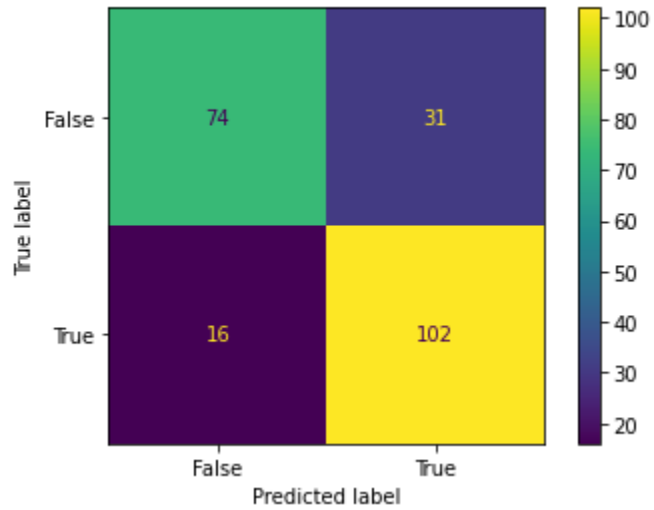1   0.82   0.92   0.87   118```

DECISION TREE CLASSIFIER

Confusion Matrix

RANDOM FOREST CLASSIFIER

Confusion Matrix

KNN

Confusion Matrix

XG BOOST

Confusion Matrix