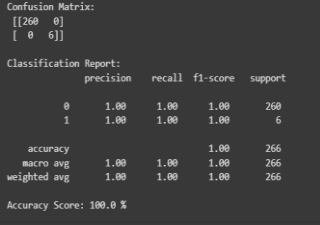
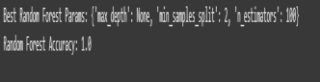


## Project Development Phase

### Model Performance Test

#### Model Performance Testing:

The models were evaluated using accuracy, Confusion Matrix, Classification Report. Random Forest achieved the best performance.

S.No.	Parameter	Values	Screenshot
1.	Metrics	<b>Regression Model:</b> MAE - , MSE - , RMSE - , R2 score -  <b>Classification Model:</b> Confusion Matrix - , Accuray Score- & Classification Report -	 <pre>Confusion Matrix: [[260  0]  [  0  6]]  Classification Report:               precision    recall  f1-score   support 0               1.00        1.00        1.00        260 1               1.00        1.00        1.00         6   accuracy macro avg       1.00        1.00        1.00        266 weighted avg     1.00        1.00        1.00        266  Accuracy Score: 100.0 %</pre>
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	 <pre>Best Random Forest Params: ('max_depth': None, 'min_samples_split': 2, 'n_estimators': 100) Random Forest Accuracy: 1.0</pre>