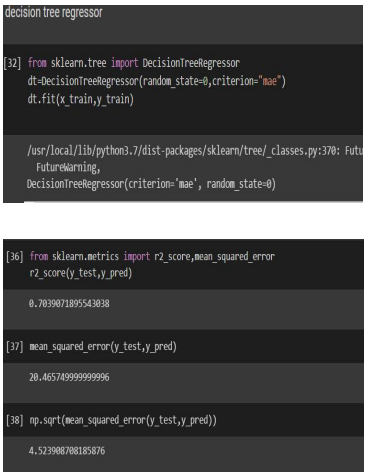
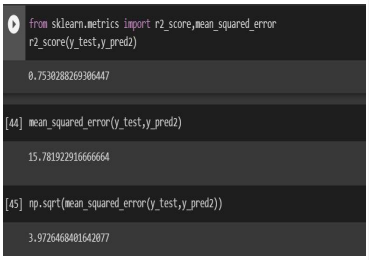
Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID17991
Project Name	Project - Machine Learning based Vehicle Performance Analyzer
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics	**Regression Model:** **Decision Tree:** MSE - 4.523908708185876 R2 score -0.7039071895543038 MAE used as criterion for fitting the model. **Random Forest:** MSE - 3.9726468401642077 R2 score -0.7530288269306447 MAE used as criterion for fitting the model. **Linear Regression:** MSE - 4.338104808526008 R2 score -0.7054992348800743	**Decision Tree:**  **Random Forest:**  

			[49] from sklearn.metrics import r2_score,mean_squared_error r2_score(y_test,y_pred3) 0.705499234880743 [50] mean_squared_error(y_test,y_pred3) 18.81915329756478 [51] np.sqrt(mean_squared_error(y_test,y_pred3)) 4.338104808526008