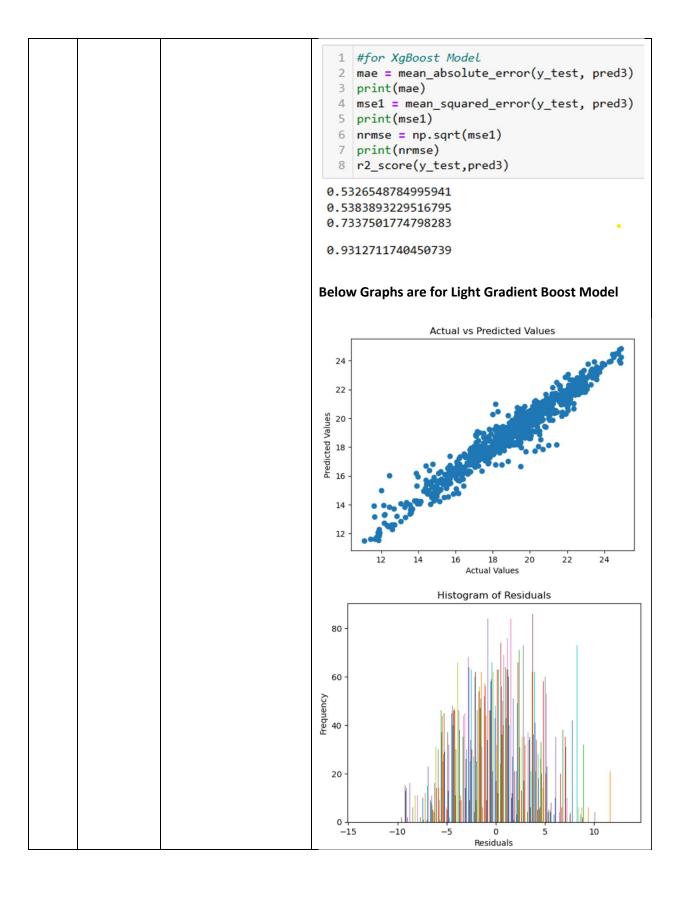
Project Development Phase Model Performance Test

Date	21 November 2023
Team ID	Team-592148
Project Name	Project – Smart Home – Temperature Prediction
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot (For Light Gradient Boost Model)
1.	Metrics	Regression Model: For Light Gradient Boost Model(Best Model, selected for project) MAE- 0.5090 MSE - 0.5098 RMSE - 0.7076 R2 score - 0.9361 For Linear Regression Model MAE- 1.5727 MSE - 3.7428 RMSE - 1.9346 R2 score - 0.5222 For Random Forest Model MAE- 0.5212 MSE - 0.6311 RMSE - 0.7944 R2 score - 0.9194 For Xgboost Model MAE- 0.5327 MSE - 0.5384 RMSE - 0.7338 R2 score - 0.9313	<pre>Screenshot (For Light Gradient Boost Model) :</pre>
			8 r2_score(y_test,pred1) 0.5211940722891568 0.6311135111844771 0.7944265297587166 0.9194343408777197



			Histogram of Absolute Residuals
			80 - Absolute Residuals
2.	Tune the Model	Hyperparameter Tuning - Nil Validation Method - Nil	Not applicable, done without tunning