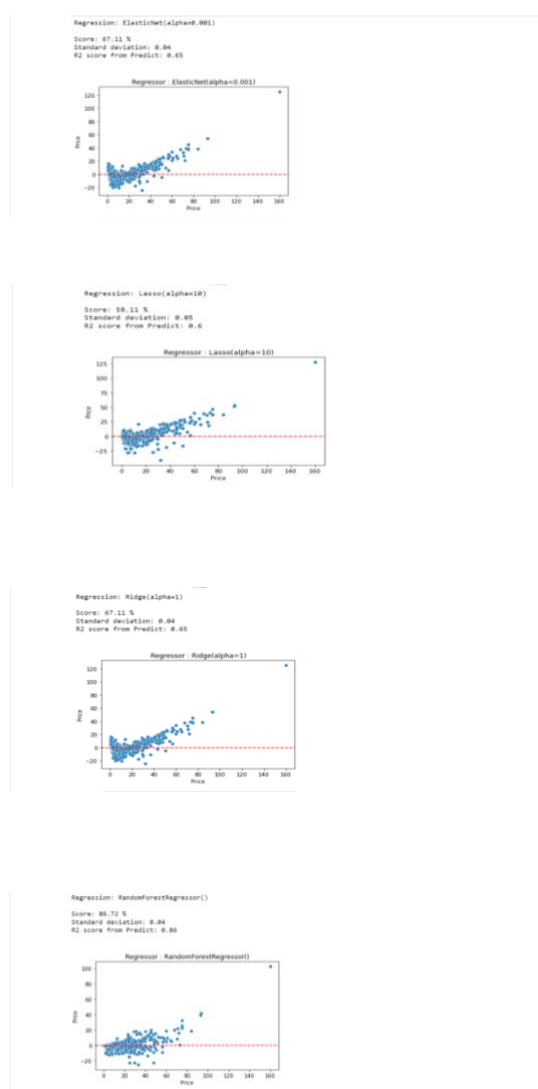

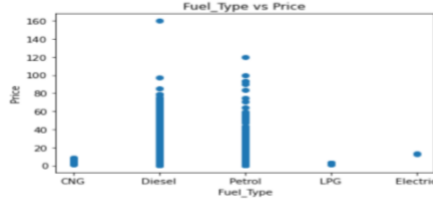




**Project Development Phase
Model Performance Test**

Date	12 November 2022
Team ID	PNT2022TMID08828
Project Name	Project – Car Resale value Prediction
Maximum Marks	10 Marks

Model Performance Testing:

S. No	Parameter	Values	Screenshot
1.	Metrics	<p>Regression Model:</p> <p>i. Elastic Net – 67.11%</p> <p>ii. Lasso – 58.11%</p> <p>iii. Ridge – 67.11%</p> <p>iv. RandomForest -86.72%</p>	 <p>The screenshot displays four separate plots, each representing a different regression model's performance. Each plot consists of a scatter of blue data points (Price vs. Price) and a red dashed horizontal line representing the predicted values. Above each plot, the model name, score, standard deviation, and R2 score from prediction are listed.</p> <ul style="list-style-type: none"> Elastic Net: Regression: ElasticNet(alpha=0.001), Score: 67.11 %, Standard deviation: 0.04, R2 score from Predict: 0.65 Lasso: Regression: Lasso(alpha=10), Score: 58.11 %, Standard deviation: 0.05, R2 score from Predict: 0.6 Ridge: Regression: Ridge(alpha=1), Score: 67.11 %, Standard deviation: 0.04, R2 score from Predict: 0.65 RandomForest: Regression: RandomForestRegressor(), Score: 86.72 %, Standard deviation: 0.04, R2 score from Predict: 0.90

		<p>Hyperparameter Tuning Validation Method</p> <p>i. Year vs Price</p> <p>ii. Fuel type vs Price</p> <p>iii. Owner type vs Price</p> <p>iv. Milege vs Price</p>	<pre>#year vs price plt.title("Year vs Price") plt.xlabel("Year") plt.ylabel("Price") plt.scatter(df1_map.Year,df1_map.Price)</pre>  <pre>#fuel type vs price plt.title("Fuel_Type vs Price") plt.xlabel("Fuel_Type") plt.ylabel("Price") plt.scatter(df1_map.Fuel_Type,df1_map.Price)</pre>  <pre>#transmission vs price plt.title("Transmission vs Price") plt.xlabel("Transmission") plt.ylabel("Price") plt.scatter(df1_map.Transmission,df1_map.Price)</pre>  <pre>#owner type vs price plt.title("Owner_Type vs Price") plt.xlabel("Owner") plt.ylabel("Price") plt.scatter(df1_map.Owner_Type,df1_map.Price)</pre> 
2.	Tune the Model		