Business Objective:

Forecast the Cocacola Prices.

Step 1: Create dummy Variables.

4 dummy variables has been created. Q1, Q2, Q3, Q4 are the dummy variables.

Log and t\_square value has been created as well.

Step 3: Prepare different models :

1. Linear Model : RSME - 620.7862
2. Exponential Model : RMSE - 488.2979
3. Quadratic Model : RMSE - 458.8969
4. Additive Seasonality : RMSE - 1822.8497
5. Additive Seasonality with Quadratic : RMSE - 266.4439
6. Multiplicative Seasonality : RMSE - 1906.6029

Step 4: Decide model for forecasting.

1. Since Additive Seasonality with Quadratic has lowest RMSE value (266.4439) , this model will be used for forecasting.

Step 5: Combining Training & test data to build Additive seasonality using Quadratic Trend