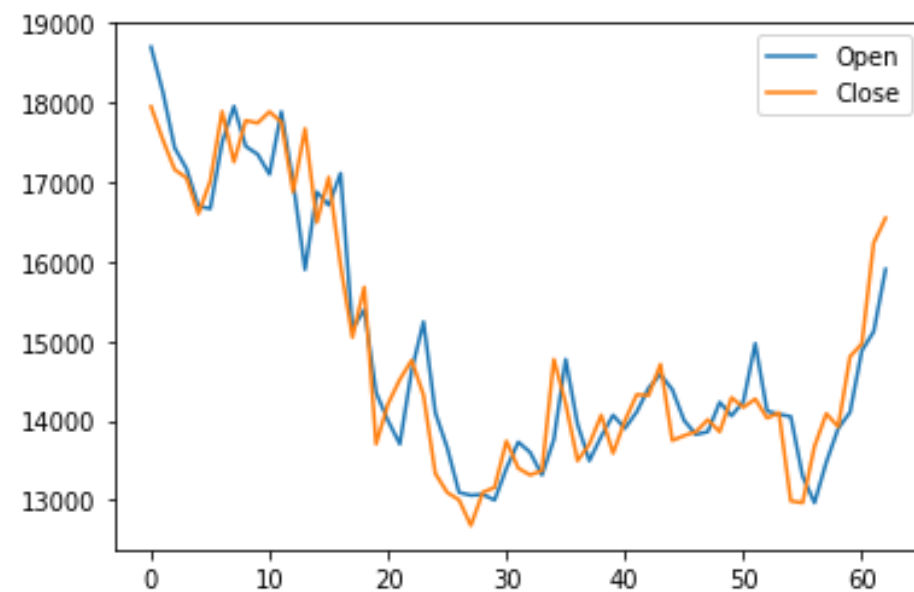
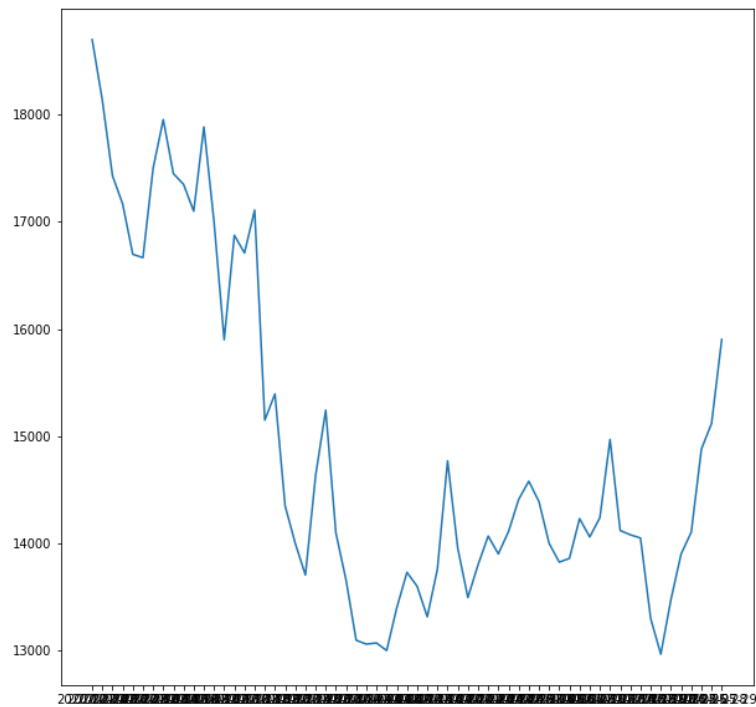


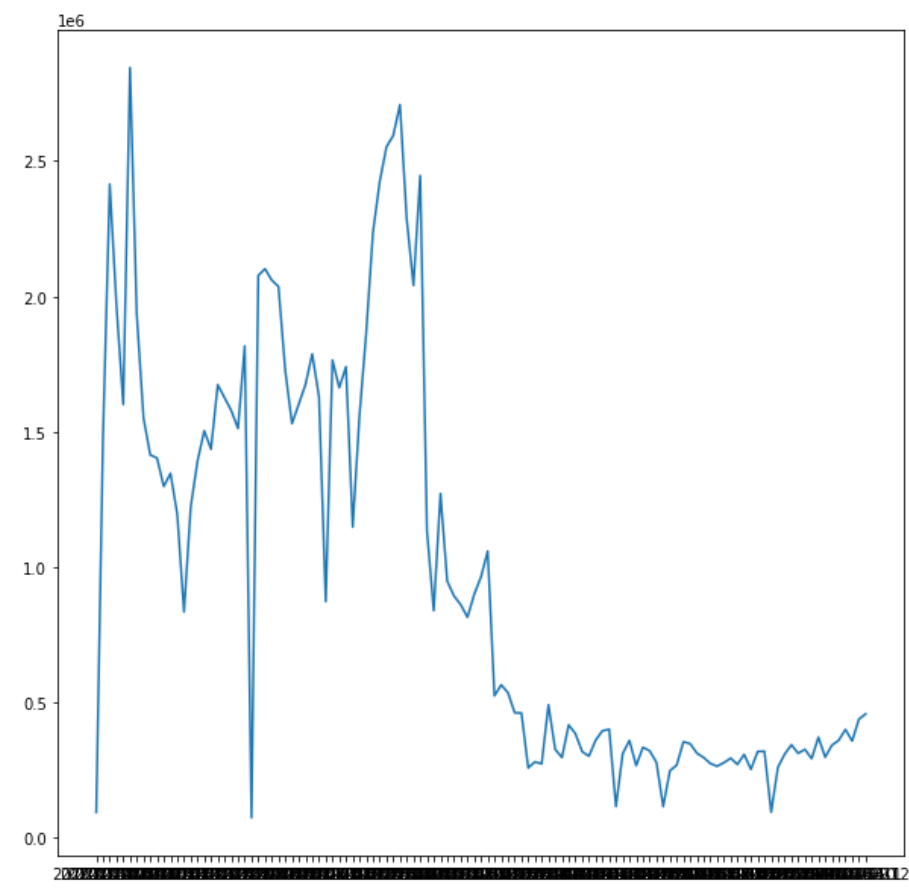
Assignment No 6 Report (CRUDEOIL + STOCK)

This assignment consists of computing correlation between Stock prices and CRUDEOIL and predicting future stock prices of Eicher motors.

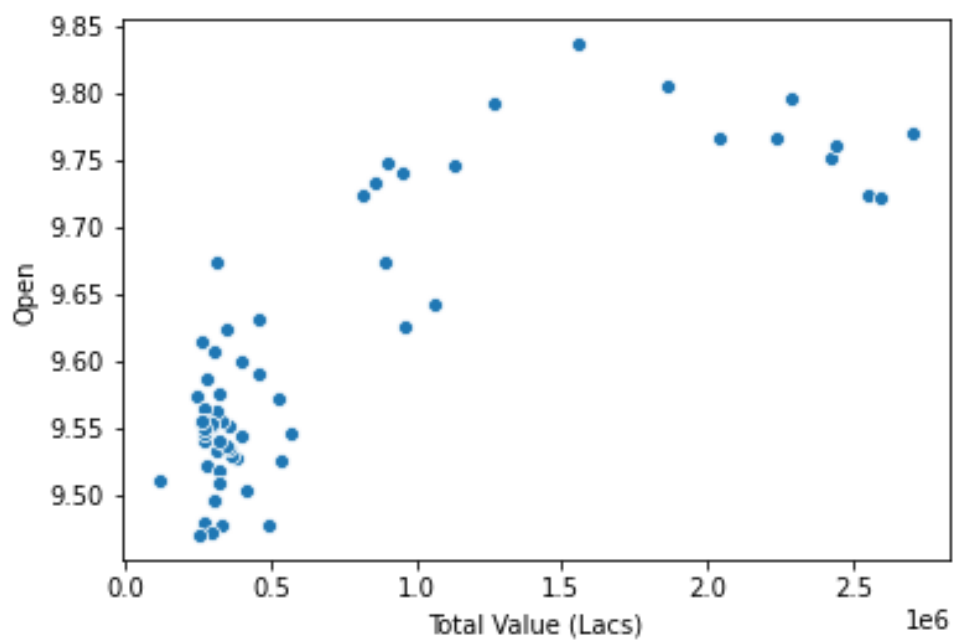
Eicher motors stock price from 22nd January 2020 to 12th June 2020:



Plot of Crude oil value in India from 1st January 2020 to 12th June 2020:

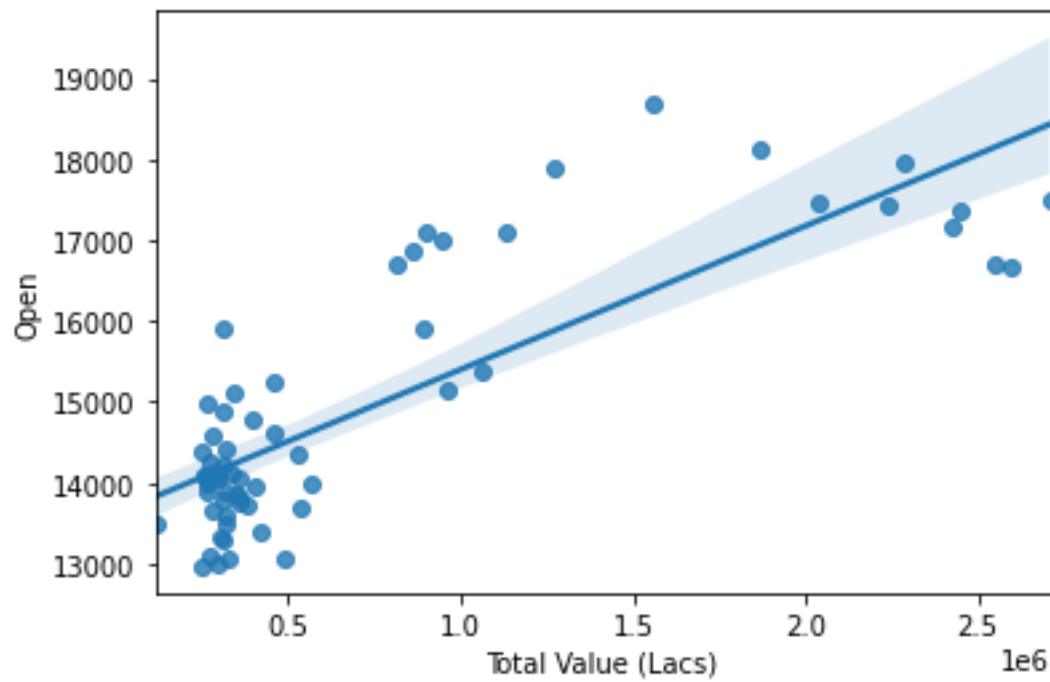


Correlation plot of Opening values of Eicher motor stock values on crude oil price



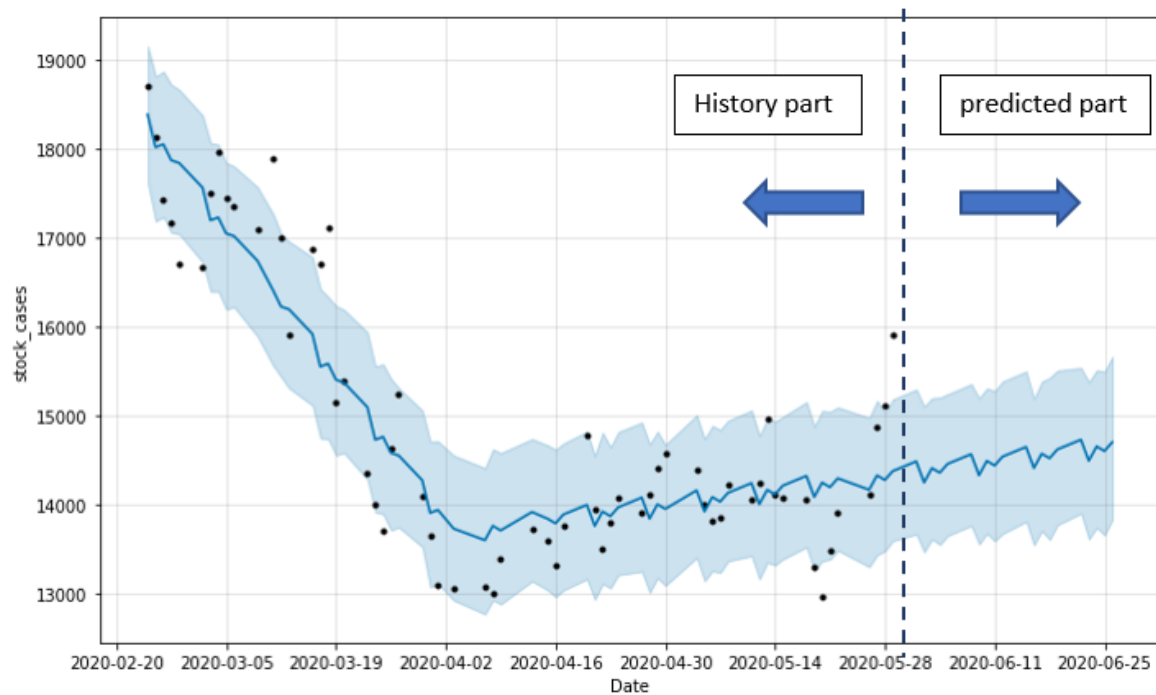
Plot of regression line on the previous plot on the opening values of Eicher stock and the crudeoil value.

It can be observed that Opening values of the stock market and active cases **are positively correlated**

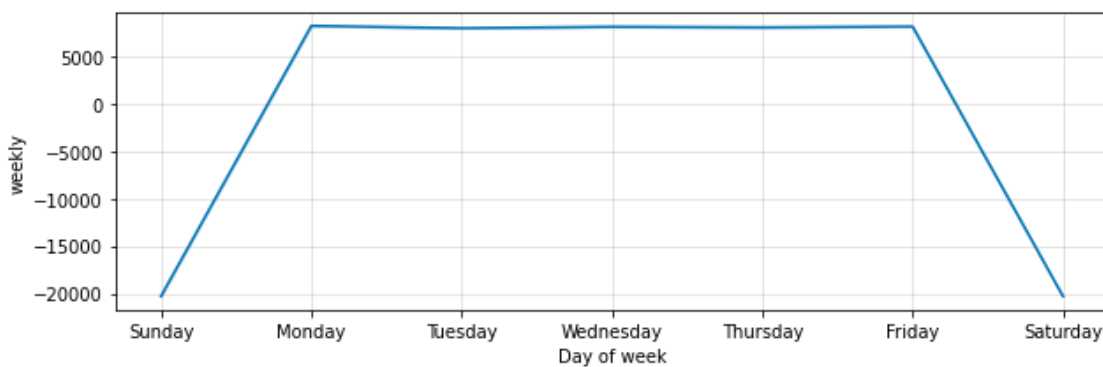
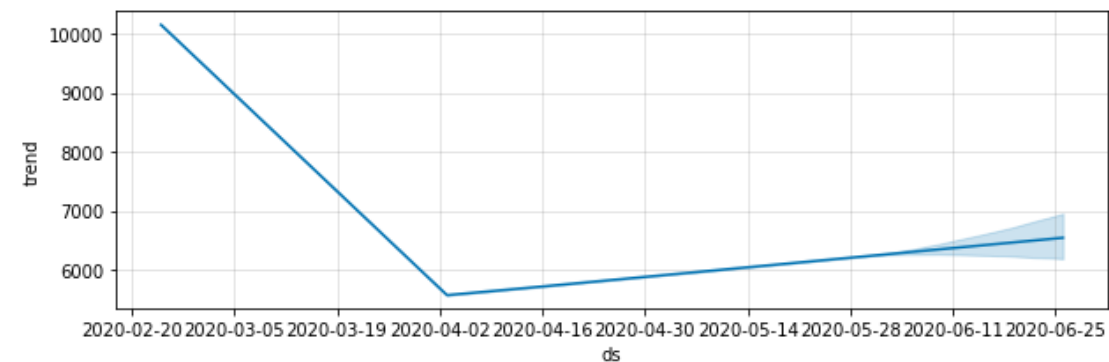


Machine learning Prediction using Facebook prophet prediction model:

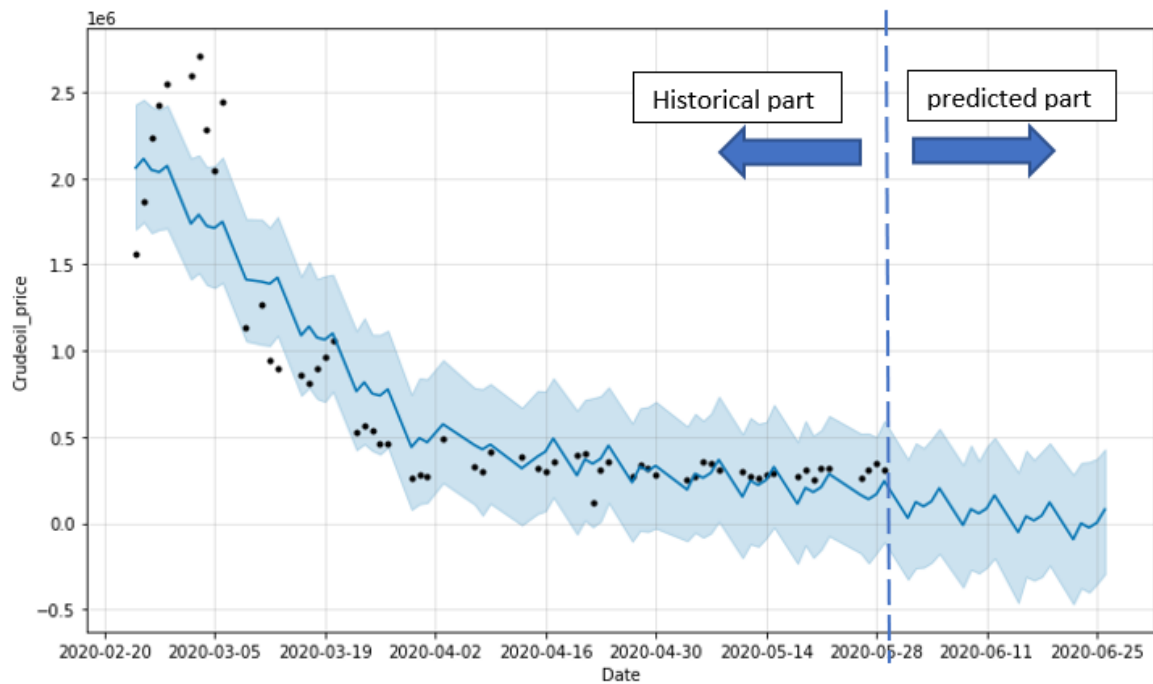
Predicted value of Eicher motors stock price is as follows:



Forecast of Trend of Eicher motors stock price:



Predict the Crudeoil prices for next 30 days



Trend of crude oil prices for next 1 month and the trend per week is given below

