**Solution Sheet**

1. Which model have you used for stock price prediction? Explain your model.

I have used a Random forest Regressor while prediction the values for the Stock price. Random forest is highly accurate model and prevents overfitting. I have used 100 estimators and fitted the model.

I have also done the predictions using a decision tree regressor.

Although the final submission is using a random forest model.

1. Which model have you used for Put-Call ratio Time series prediction? Explain your model.

Since, the output depends upon the ratios from 10th August we cannot use an ARIMA model as it is for univariate variables only. So I have chosen VARMAX model to do the prediction for 16th August.