**R Assignment**

**Stock Analysis using Basic Statistics**

For our analysis, we used data for all the Nifty 50 stocks (51 stocks) and the nifty index value from 30/05/2013 to 30/05/2017. However, since ibulhsngfin got listed on 23/07/2013, we had to use data for all the stocks for the time period 30/07/2013 -30/05/2017.

**Observations:**

1. The stocks prices do not follow normal distribution; however they follow log normal distribution.
2. The same sector stocks are highly correlated with each other
3. The returns of the stock follow a normal distribution over the time period.
4. The nifty returns are driven majorly by banking sector stocks such as yesbank, indusind, HDFC Bank etc..
5. Following stocks have given poor returns over time:
   1. SBIN
   2. ASIANPAINT
   3. ICICIBANK
   4. BankBaroda
   5. AXISBANK
6. The variance in the returns was high for following stocks:
   1. EICHERMOT
   2. AUROPHARMA
   3. MARUTI
   4. YESBANK
   5. INDUSINDBK