**Outputs**

**Summary Statistics:**

* **Mean:**

Open = 83.18, High = 84.03,

Low = 82.28, close = 83.20,

Volume = 38324018.22

* **Median:**

Open = 79.3, High = 80.07,

Low = 78.52, close = 79.36,

Volume = 29106000

* **Standard deviation:**

Open = 40.13, High = 40.31,

Low = 39.92, Close = 40.16,

Volume = 29367965.91

**Dependent Variable(s)**:

Volume seems like something the manager of Facebook should be interested in. Hence, our dependent variable.

**Correlation test:**

**Open vs volume:** Higher the open value,

Lower will be the volume as most common people don’t want to buy too expensive stocks.

**High vs volume:** Higher the high value,

Lower will be the volume as this shows that the company is expensive and will “scare off” the common middle class stock buyers.

**Low vs volume:** Higher the low value,

Lower will be the volume as this also shows that the company is expensive and will “scare off” the common middle class stock buyers.

**Covariance Values:**

**Volume vs open** = -5.943362e+08

**Volume vs High** = -5.919043e+08

**Volume vs Low** = -5.977705e+08

**Correlation Coefficients:**

**Volume vs open** = -0.5042738

**Volume vs High** = -0.5000325

**Volume vs Low** = -0.5099377

**Result:**

From all the tests and correlations, it

Can be deduced that the stock exchange

**Volume is strongly correlated to Lowest**

**Price of Stock that particular day**.

Well, qualitatively speaking, this was

Bound to happen. Lowest price gives an

Idea of the highest price and buyers set

Their limits accordingly.

**Regression Analysis:**

Regression model came out to be

**Volume = -2019148\*(Open) + 13562899\*(High) - 12037481\*(Low) + 57056751 + e**