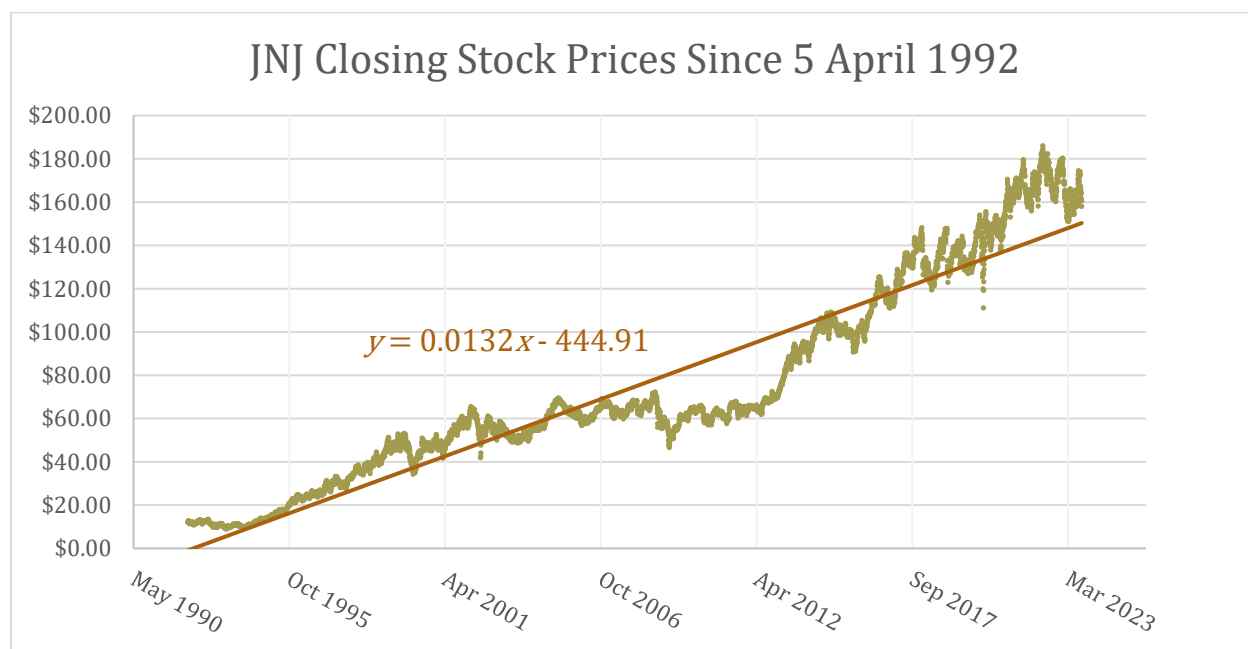# Regression Assignment

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Plotted here are the closing stock prices of Johnson & Johnson (JNJ) on the New York Stock Exchange (NYSE) since 5 April 1992 through April 2024, fetched using Microsoft Excel's built-in STOCKHISTORY function (*Microsoft*).

Plotted along with the stock prices is the least-squares regression line $y = 0.0132x - 444.91$. The slope of this line can be interpretted as the averge change in price ($USD) per day, which is to say that the value of JNJ stock increases, on average, at about 1.32¢/day.

The y-intercept of this line, $-\$444.91$, has no reasonable interpretation; Microsoft Excel begins measuring dates with 0 corresponding to the start of January 1900, so this, taken literally would be the stock price at this date. However stock prices are strictly positive numbers, and Johnson and Johnson wasn't listed on the NYSE until 1944 anyways (*Johnson & Johnson, 2018*).

References

Johnson & Johnson. 2018. What a year! 19 facts about what the world looked like when Johnson & Johnson went public. [Online] April 2018, 2018. [Cited: April 26, 2024.] https://www.jnj.com/our-heritage/19-facts-about-the-world-when-johnson-johnson-went-public-in-1944

Microsoft. STOCKHISTORY function. *Microsoft Support.* [Online] [Cited: April 26, 2024.] https://support.microsoft.com/en-us/office/stockhistory-function-1ac8b5b3-5f62-4d94-8ab8-7504ec7239a8