**Project Description**

Construct a portfolio of Stocks and Cash (Excel) using the following information:

1. Initial Capital $50,000 (Equity)
2. Obtain a loan (up to 50% Margin) for 7.0% interest per annum.
3. Entry Date (September 30, 2020) – Closing stock for that day.
4. Exit Date (April 30, 2021)
5. Maintain Diversification discipline (see below) \*
6. Always maintain at least 10% Cash. Cash interest income at 1.5% per annum.
7. Trading stocks at least 5 times during this period (5 initial stock positions need to be replaced during this period)
8. Assume no trading costs or any additional expenses (except interest on the margin loan)

You Spreadsheet should include the following:

1. Initial Transaction Sources and Uses (September 30, 2020)
2. List of stocks (Symbols)
3. Business Description (one line) and Industry categorization for each stock
4. Monthly Cash Flow for Oct 2020, Nov 2020, Dec 2020, Jan 2021, Feb 2021, Mar 2021and Apr 2021 which will include any dividends paid, gains and losses on trades, interest payments, interest income of cash balance.
5. Overall monthly performance (including a graph)
6. S&P 500 Index on the closing of Sep 30 2020, Oct 30 2020, Nov 30 2020, Dec 31 2020, Jan 29 2021, Feb 26 2021, Mar 31 2021, Apr 30 2021.

At Value Date calculate the following:

1. Total Portfolio total HPR – both Levered and Unlevered
2. Total Portfolio Standard Deviation of average monthly returns.
3. Portfolio performance as compared (including a graph) to S&P500 index during this period – (Beta Coefficient calculation (manual), Regression Analysis and ANOVA, Correlation between portfolio and S&P500).
4. Sharpe Ratio of both of your portfolio and the S&P Index.

*Suggested website to use:* [*http://finance.yahoo.com*](http://finance.yahoo.com)

\*Diversification Discipline:

* + No less than 10 stocks in the portfolio at all times
  + Each stock value cannot represent more than 20% of the total portfolio.
  + Each industry value cannot represent more than 25% of the total portfolio
  + Across 8 different industry sectors and one of the industry sectors should have at least 2 companies.