**Financial Modelling**

**1. Using Google Spreadsheet, create a dynamic model for computing beta for any NSE listed Stock. Use weekly historical data of 5 years for beta computation. Use the computed beta to apply CAPM Model and compute required/expected rate of return form an investor. 10 Year govt. bond yield should be used for risk free rate of return and Nifty50 index should be used as a proxy for market portfolio/market. (10 Marks)**

**Ans. 1**

**Introduction**

Without the proper tools and knowledge, it may be difficult for investors to make wise judgements in the complicated and dynamic world of finance. The degree of risk involved in a given investment is one of the most crucial aspects to take into account when making stock investments

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**2. Assuming a role of a risk averse investor, identify 5 stocks from Nifty 50 and create a portfolio. Optimize the portfolio asset weight allocations for risk adjusted returns. Use macro, data-analysis tab and matrix multiplication, and solver for dynamic modeling of 5 asset portfolio. (10 Marks)**

**Answer**

**Introduction**

Portfolio management is a critical component in the world of investing that may assist investors in achieving their financial objectives while reducing risk. Portfolio optimisation is the process of deciding which assets to include in a portfolio of investments in order to maximise returns and

**3a. Given the following set of cash flows (5 Marks)**

|  |  |
| --- | --- |
| **Period** | **CashFlow** |
| 1 | 45,000 |
| 2 | 40,000 |
| 3 | 35,000 |
| 4 | 30,000 |
| 5 | 25,000 |

**If your required rate of return is 7% per year, what is the present value of the above cash flows? What is the future value of the above cash flows at the end of the 5-year period? Create a dynamic Model for the question using excel to solve for any 5 cash flows.**

**Answer**

**Introduction**

Analysing investments entails assessing financial assets to ascertain their worth and potential for profit. In order to properly analyse investments, it is crucial to comprehend the concepts of current