Applied Financial Statement Analysis Assignment -6

> B. Santhiya 1P23MM014 II. M. COM CA

## Assignment - 6

Explain CAGR with Example

CAGR ( Conjourd Annual Growth Rate) is the rate at which an investment grows annually, assuming the profits are reinvested at the end of each year. It smooth out the growth rate over a period, accounting for Volatility and showing a steady annual rate of growth from the beginning to the end of the period. The formula for CAGR is

CAGR = ( Ending Value) -1
Beginning value) -1

Erding value = Value of the investment at the end

Beginning value - Value of the investment at the start of the period

n = Number of years

Example 1: Investment browth

Let's say you invested \$10,000 in a stock in 2019 and by 2023 the value of your investment has grown to \$20,000. To calculate the CAGR.

Beginning Value (2019) = \$10,000 Ending Value (2023) = \$ 20,000 Number of years (n) = 7  $CAGR = \left(\frac{20,000}{10,000}\right)^{1/4} - 1 = \left(\frac{2}{2}\right)^{0.25}$ 

So, the CAGR is 18.92/ meaning the invertment grow by about 18.92/ per year average over the 4 year period.