

## **Abstract**

**There are several ways to form a stock portfolio. In the selection of shares to be included in the portfolio, of course investors want a high return value or a low risk value. In this final task the formation of a Mean-Semivariance portfolio is carried out by applying the Dempster-Shafer (DS) theory to obtain the expected portfolio. The Dempster-Shafer theory here is used to select stocks with high performance values. Stock data used in this final project are shares included in the LQ45 index. Then selected using the Dempster-Shafer theory and obtained 10 stocks with the highest performance values to be included in the portfolio, namely BSDE, GGRM, INDF, SGRO, SMGR, SCMA, MNCN, BBCA, HMSP, and BMTR by generating a portfolio return of 0.00511 while return portfolio without Dempster-Shafer is 0.0026. To evaluate portfolio performance using the Sharpe Ratio method the results obtained by the portfolio with Dempster-Shafer amounted to 0.07329 and the Mean-Semivariance stock portfolio without Dempster-Shafer was 0.00598. The results of this final task show that the Mean-Semivariance stock portfolio with the Dempster-Shafer has a better portfolio performance compared to the Mean-Semivariance portfolio without the Dempster-Shafer.**

**Keywords: Dempster Shafer, Portofolio Return, Portofolio Mean-Semivarian, Semivariance, Sharpe Ratio**