*Abstract: Metrics can be used to measure the quality of software. We calculated metrics based on the code volatility and found that most volatile classes exhibits poorer quality of metrics than the stable classes. We also found that stable systems are more desirable and they pose good quality metrics. We also applied data mining approach to the historical data of Apache ant to guide the developer about the related changes. We received a precision of about 10% and a recall of about 2% for the predictor model based on association rule mining.*

**Keyword :-** Code volatility, Object Oriented metrics, System metrics, Association rule, Apriori, Precision, Recall