People's daily have made operations that dozens of labor tasks which are lead time and energy consuming such as mail sorting make to input of different public forms by hand. Employees are distracted and reduced product quality in these uniform and everyday jobs with time. Patterns that are figures into images should be classified as highly accurate and quickly of in order to improve product quality. Dimension transformation carried out requirement to perform highly accurate and fast a classification. In this sense, by passing from the high cost of computational processes such as mean, covariance matrices, accounting of eigenvalues and eigenvectors, the determination of score values using principal component analysis carried out image dimension reduction. The same process was carried out without using principal component and high cost of computational processes without comparison. As a result of the comparison, the results obtained are given.