## *Abstract*

*Computer application a lot of used as an assistive appliance in so many matter. Application used the expected can work quickly in doing its process. Laboring application quickly, have to be developed by efficient algorithm, what is measured from time facet (running time) and space (memory). Smaller require space and time, hence progressively the algorithm goodness. Asses of measurement of time or algorithm space referred as an algorithm complexity.*

*To can know and compare the efficiency of an algorithm with the other one, require to be done by its complexity calculation beforehand. In manual algorithm complexity calculation, need a lot of time. Especially if which it algorithm calculated and compared to long enough and a lot of its amount. Therefore, require by an application which can assist in enumeration of algorithm complexity to chosen the more efficient algorithm to develop a computer application.*

*In this final project, build application by using Ianguage of programming Borland Delphi 7.*

*The result of testing showed, algorithm complexity calculation can use Application of Complexity Algorithm, which the results empirics with theory of asymptotic complexity.*

***Keywords***: *Algorithm, Algorithm Complexity, Borland Delphi 7*