

Abstract

Security is very important thing in this information technology development. Exchange information must be prevented to fall to unauthorized user, therefore needed an information security to take care it. One of this way is using a cryptography method.

Cryptography method represent science and art of keeping information (data) secure from unauthorized user. A person can change original data (plainteks) become a data that can not be read (cipherteks) and return cipherteks into plainteks with use a key (password).

In this final task is made an implementation by using Borland Delphi 7 and analysis encryption and decryption comparison between Gost algorithm that easy to implementation so that has quick processing time, and Serpent algorithm that has high security but less in processing time. The parameters that will be compared are encryption and decryption processing time, avalance effect, and security.

Keywords: cryptography, key, Gost, and Serpent.