Abstract

Encryption is a process in which the sender encrypts or scrambles the message in such a way that only the recipient will be able to decrypt the message with the knowledge of the proper key. With the growth of internet, the need for secure data transmission become more essential and important, as security is a major concern in the internet world. So the plain text should be codified by the process of encryption. Different types of data have their own features, thus different techniques should be used to protect confidential data from unauthorized access. In this paper proposed in bit level encryption and decryption algorithm based on number of keys which can encrypt the 8 bit binary no to its corresponding 8 bit cipher text and a decryption algorithm which can convert that 8 bit cipher text to its corresponding 8 bit original no. It can also be extended to 16, 32 bit binary number.

References

Cryptography, Taylor & Francis Ltd.


15. Willian Stallings, Cryptography and Network, Prentice Hall of India.


17. FOROUZAN, CRYPTOGRAPHY AND NETWORK SECURITY, McGraw Hill Education.


**Index Terms**

Computer Science  
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**Keywords**

Bit level encryption; plain text; cipher text; encoding; decoding