**Abstract**

Cryptography has always been a very concerning issue in research related to digital security. The dynamic need of applications and keeping online transactions secure have been giving pathways to the need of developing different cryptographic strategies. Though a number of cryptographic algorithms have been introduced till now, but each of these algorithms has its own disadvantages or weaknesses which are identified by the process of cryptanalysis. This paper presents a survey of different block ciphers and the results of attempts to identify their weakness. Depending upon the literature review, some open research problems are being presented which the cryptologists can depend on to work for bettering cyber security

**Index Terms:** block ciphers, cryptanalysis, attacks, SPN, Feistel.