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Elliptic Cryptography Curve for Secured Text Encryption

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Abstract: Information security is a significant issue in this advanced world. At the point when an individual sends a mysterious message to the beneficiary there are heaps of opportunities for outsiders to get to the mysterious message. Cryptography assumes a huge part in moving messages safely. Elliptic Curve cryptography is a public key cryptographic framework where the message is scrambled utilizing the private key of the sender and decoding is finished utilizing the sender's public key and the collector's private key. ECC furnishes greater security with lesser key size when contrasted with other cryptographic strategies. So this can be used in electronic gadgets with lesser memory and lower power utilization. The security in the planning procedure will give twofold security to the text encryption. In this venture we dissected the presentation of standard NIST ECC bends like 192 piece, 224 piece, 256 cycle, 384 piece, 448 piece and 512 bit.

Keywords: Elliptic curve cryptography (ECC); Public key cryptography; Mapping; Encryption/Decryption.