**Plain text** :-plain text is readable by everyone

**Cipher text** :- intended sender and intended receiver can read and send the data

**Encryption**:- it is the process on converting plain text into ciphertext

**Decryption**:- The process of converting ciphertext into plain text

**Cryptography**:- Art and science of achieving security by making text unreadable.

**Cryptanalysis**:- Unreadable to readable without knowing how messages are converted from readable to unreadable

**Cryptology** :- Cryptography + Cryptanalysis

**Ping :-** Verify connectivity to another tcp/ip computer

**TraceRoute(tracert)**:- Used to trace out that a packet takes when traveling to its destination.

**Ipconfig**:- shows the ip address of the system

**Netstat**:- display all active network connection and ports

**Private key (symmetric key cryptography):-** Is used for encryption and description

**Asymmetric key cryptographic:-** public key is used for encryption and private key is used for description