**Cryptography**

Asymmetric Key

Symmetric Key

Symmetric Key Cryptography:

Symmetric key cryptography

Lets suppose **System A** wants to send a message to **System B**



**K1**

**Encryption**



**Cipher Text**



**Decryption Using key1**

**Key1**

**Cipher Text**

**Key1**

**Cryptography**

Asymmetric Key

Symmetric Key

Symmetric Key Cryptography:

Symmetric key cryptography

Lets suppose **System A** wants to send a message to **System B**

**Then** it need to use unique key,and if system are multiples then the multiples key are required which are difficult to handle.



**K1**

**Encryption**



**Cipher Text**



**Decryption Using key1**

**Key1**

**Cipher Text**

**Key1**



**Encryption**

**K1**

Key on Apple iOS 13.3Key on Apple iOS 13.3

**Cipher Text**



**Key2**

**Key1**

**Key1**

**Cipher Text**



**Encryption**

**K2**

**Cipher Text**

**Key3**



Key on Apple iOS 13.3

**Key2**



**Key1**

**Key4**

**Key3**

**Key2**





**Asymmetric Key Cryptography**

Also known as public key cryptography

We used here two different keys i.e

1:Private key

2:Public Key

Everyone(user) has two keys.

Key on Apple iOS 13.3Key on Apple iOS 13.3Key on Apple iOS 13.3Key on Apple iOS 13.3Key on Apple iOS 13.3



If you want to encrypt or decrypt the message you have to used both the keys.



**Encryption**

**Decryption**

**Using Public Key**

**Using Private Key**



**Encryption**

**Decryption**

**Using Private Key**

**Using Public Key**

**Not Acceptable**



**Encryption**

**Decryption**

**Using Public Key**

**Using Public Key**



**Encryption**

**Decryption**

**Using Private Key**

**Using Private Key**