**CIA ASSIGNMENT**

1. **Confidentiality**

**Definition**: Ensuring that sensitive information is only accessible to those who are authorized to view it. Confidentiality is about protecting data from unauthorized access or disclosure.

**Application to Your Email**: For your email account, confidentiality means protecting your messages and attachments from being accessed by hackers or unauthorized individuals. This can be achieved through

**2. Integrity**

**Definition**: Ensuring that information is accurate and reliable, and has not been altered by unauthorized individuals. Integrity guarantees that data remains unchanged during transit or storage.

**Application to Your Email**: In the context of email, integrity ensures that the content of an email sent by you or received from others hasn’t been tampered with. You can protect the integrity of your emails by using digital signatures or secure email protocols like S/MIME (Secure/Multipurpose Internet Mail Extensions.

1. **3. Availability**

**Definition**: Ensuring that information and resources are available to authorized users when needed. Availability focuses on keeping systems running and accessible despite disruptions.

**Application to Your Email**: Availability in your email account means being able to access your email service whenever you need it, without being blocked by server issues, attacks like denial-of-service (DoS), or other technical problems. To ensure availability, you might rely on a reliable email provider and use backups or redundancy measures in case of outages.

Strong passwords, two-factor authentication (2FA), and encryption of sensitive emails.