

DAY 6 TASK 6 CRYPTOGRAPHY

Tools Used

- **OpenSSL**

Key concepts:

Encryption methods:

- Symmetric Encryption(AES)
- Asymmetric Encryption(RSA)

Generated private key and public key and verified whether the file is tampered or not.

Digital Signatures:

Who sent the file

Integrity of the file

S in HTTPS is for secure websites (http-secure)

VPNs – encrypted tunnels

Password security – hashing

Software updates – digital signature verification

Understood core cryptographic principles.