	Name : Adwart Purao Batch: CSS-V
	UID: 2021307101 BECOMPS B PAGE NO.:
	RSA Algo. overview:
	RSA So named after Rivest Shanir, Adleman is a widely used asymmetric cryptography technique. It oulles on the mathematical difficulty of factoring large prime ng. i making it a secure method for energyfring if decrypting data.
	They Concepts:
	Asymmetric Cryptography: RSA uses a pair of key.
	Puller key: Used for encryption of can be shared openly Private ky: Used for decryption, kept secret
→ ·	Ky Generation: Select 2 large prime $ng \le p \notin q$ Compute $n = p \not= q$ Calculate $\phi(n) = (p-1) \not= (q-1)$ Choose e such that $1 \le e \le \phi(n) \notin G(0(e, \phi(n)) - 1$ Determine d such that $d \times e = 1 \mod \phi(n)$
-)	Encryption: Convert plaintent menage (M) into integer Compute the appartent using $C = M^e \mod(n)$
\rightarrow	Decryption: Compute Musing M=C^d mod(n)
	Applications: 1) Secure data transmission 2) Dégétal Signatures & key encharge protocols.
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