Cyber security Dala Engreyion Standard (DES): Block Ciphers feedure > file data -> larget block size, that's why greater Security -> Laragere bey six > multiple round u > substituting > Peremutation > XOR Stream cipheres features; > 201-time > encreppt duta one bit on byte at a time > low memory are I fast & efficient when used! - Real-time communication (nedio, va) -> When low latency & spited need > low preoceesing power

Feistel Melwork.

Encraption

Decreption

NIST: National institute of Standard & Technology

Ciphere Suites set of algo for secure

= ommunication (Like HTTP, SSLete)

9 components:

-> key exchange RSA, ECDHE

RSA, DSA,

> Authoritication

-> Encryption Algo AES, 3DES

-> MAC/Hash furthin SHA-256,

SHA-389

CS CamScanner

pelponemon Herrouth DES features. Type: symmatric key block apper block ciptize: 69 bit key size: 56 bit tround: 16 Stransfura: Feistel Network Work Step: (i) Input 69-bit plaintent (ii) IP (Initial Peremutation). (m) 16 record Jeistel Network each tound -> perm. -> XOR (is) FP(Final --- ? (N) Output 69-bit ciplercent

P book:

	Day ab				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1	
١.	20	27	9	28	5	21	93
26	91.	25	12	92	- 13	3 45	62
19	11	51	31	10	30	22	99
90	6	99	57	50	58	3	60
[8	52	-69	19	56	15	196	16
3)	29	55	98	2	32	63	59
5.3	7	13	59	61	22	97	33
38	23	36	35	8	32	34	9
			1		391		

> Expansion Junethn DES (32bit->98bit)

Perenutation book

Expansfin functions J. S. bon

Peremutation box (P-box) com

Is 5-bon is compression box ?