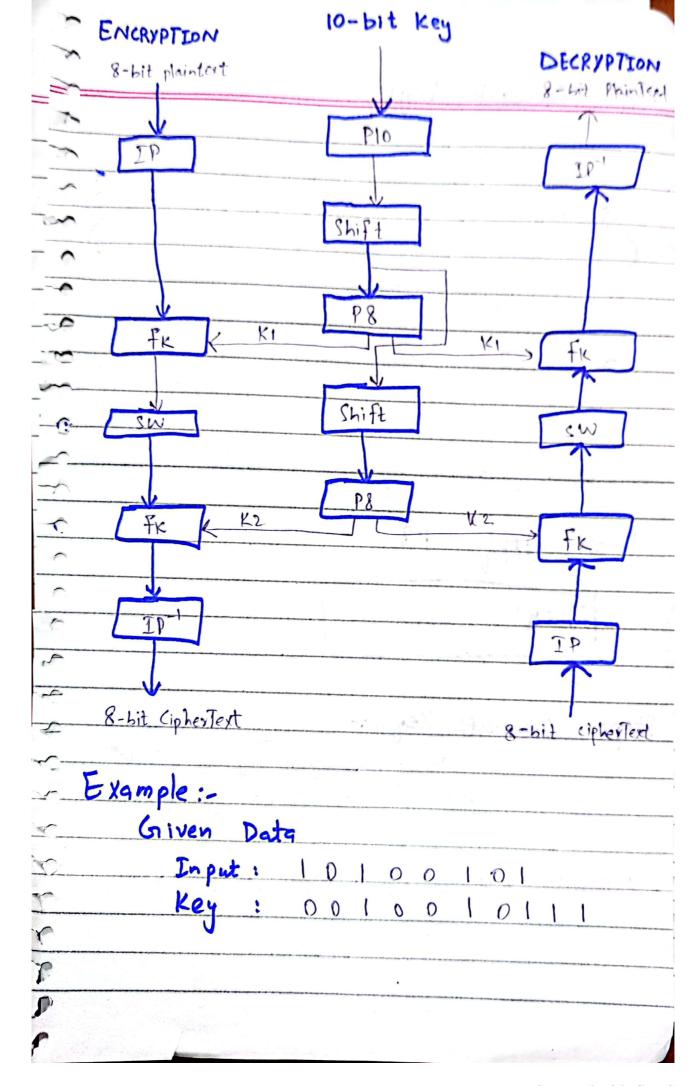
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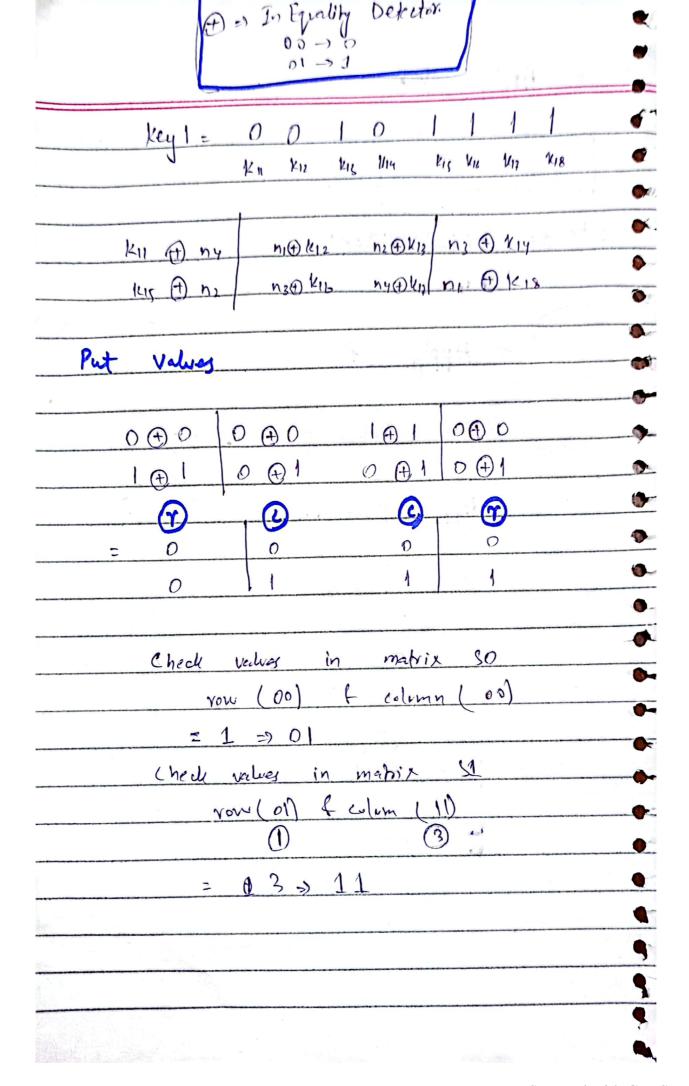
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	NAME : JAWAD AHMED
	ROLL No : 209-0165
	SECTION: BCS-7A
	SUBJECT: INFORMATION - SECUTITY
	Assignment # 01
2,	V
	X X
:- F	Perform complete encryption/decryption
	using S-DES?
ns:-	SDES (Simplified Data Encryption Standard).
is	alemithm It
	a simple encrypting algorithm, +c
is	
is	used for educational purposel and
is	used for educational purposes and Limitea Security applications.
is has	Limited Security applications.
is has	used for educational purposel and
is has	Limitea Security applications. Tyption using S-DES.
is has	Limited Security applications. Tyption using S-DES. Thout: 1 0 1 0 0 1 0 1 (8-bit)
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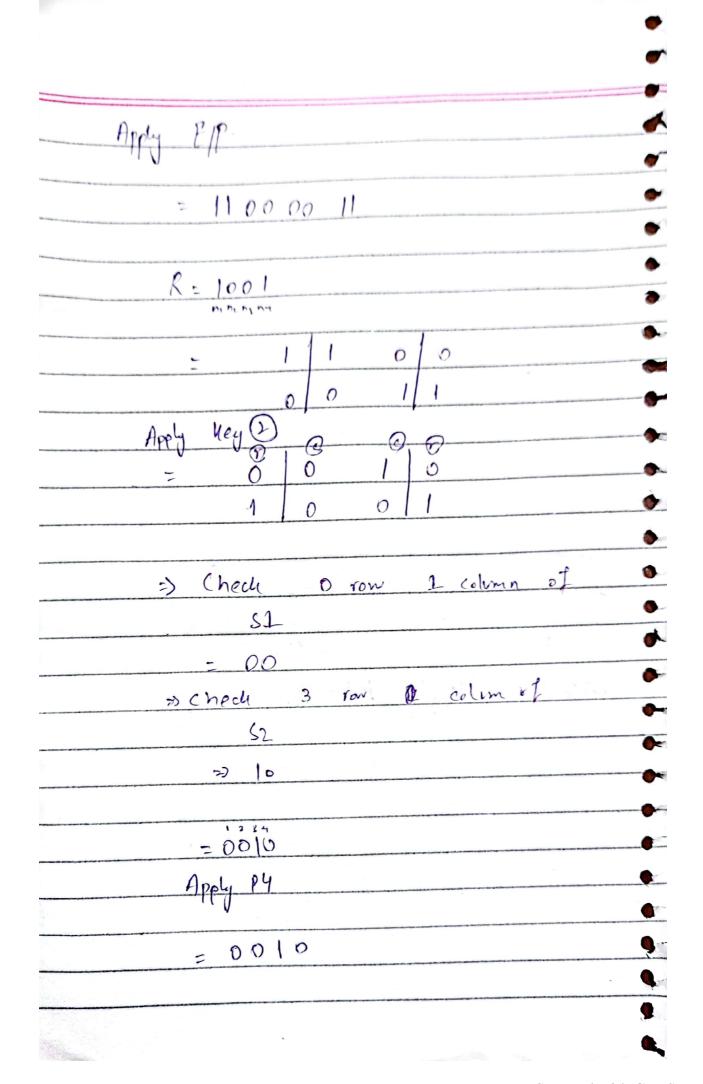


::::::::::::::::::::::::::::::::::::::		^
Stepl: Generate Keyl		~
orignal-key = 00 1 00 1	7 89 10	?
(Plo is shifting of bits based on rul	es or may be given)	PHT
P10 - orignal - key = 100001	0111	<u>a</u>
Shift & First and Last 5	bits	
by one left		-0;-
shifted_Plo-orignal-key= 00001	0 1111	<u>_0</u>
B) Apply P8	1	7
	and the same of	•
		1
	***************************************	4
Step2: Generale Key2:-	1 1 1 1 1	
Take shifted - Plo-original l	ley circl (N)+	—-1 7
first and last 5 bil	3 by 2 left.	
ST.	g world	
2-left-shifted_Plo-orignal-vey = 001001	1101	
1 2 3 4 5 6	78 910	1
	D.	
		-

=> Apply P8 Key2 = 11101010 Step3: ENCRYPTION Orignal-input = 10100101 => Apply IP IP-071gnd-Vey = 0 1 1 0 1 0 0 2) Apply Freyli FK(LOR) = (LA) F(ROSK)OR) L= 0111 R= 0100 SK : Key 1 First solve F(R, Su) R= 0100 = 1 n1 n2 n3 ElP = 0010 1000 ny hi 112 71 hy nz



```
50.
        P(R.Sh) = P4(01 11)
Now Apply Py
...
         F(R, SU) = 1110
         Ful LOR) = (0111 + 1110, 0100
                       1001,0100)
               fu (L, R)= 10010100
          Apply Sandwich Function
          SW
                = 0100 1001
              Apply Fley2 on so
          Fley (01001001) = (1 A F(R, Key2), R)
                  L= 0100
                  R = 1001
                   100 2 = 11101010
```



Put	value in Eq (A)
	(0100 @ 0010, 1001)
	= 01101001
(5) Apply IP-1
Enco	gled = 00110110 1 2345672
Dec	ryption Algorithm.
	We have veyl every2 (as calculate beach)
	the reciever can calculate it with ney let's apply it to decrypt 'cipher text to plain text.
	大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大
	Appyly IP on encrypted-text (cipher-tex
[]	Appyly IP on enorypted-text (cipher-text)

