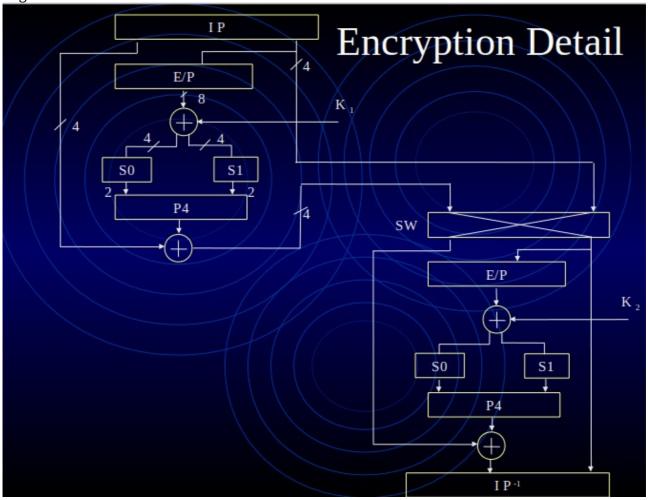
LAB ASSIGNMENT 5

1) Write a program to encrypt a given plaintext using simplified data encryption standard. Use following algorithmic steps to encrypt a given plaintext.

Algorithm:



Use following input for encryption:

1) P10 Table:

Permutation pattern to be followed:

	1									
3	5	2	7	4	10	1	9	8	6	

2) P8 Table:

Permutation pattern to be followed:

6	3	7	4	8	5	10	9

3) E/P Table:

Permutation pattern to be followed:

	1						
4	1	2	3	2	3	4	1
			_				

4) P4 Table:

Permutation pattern to be followed:

2	4	3	1

5) S-boxes:

S-0

Col	0	1	2	3
Rows				
0	01	00	11	10
1	11	10	01	00
2	00	10	01	11
3	11	01	11	10

S-1

Col	0	1	2	3
Rows				
0	00	01	10	11
1	10	00	01	11
2	11	00	01	00
3	10	01	00	11

Input: Plaintext: 101000010