Example of S-DES algorithm

If suppose k value is given as.

K = 10100 00010 (10 bit)

Now apply p(10) permutation.

According to p(10) permutation

input :	1	2	3	4	5	6	7	8	9	10
output:	3	5	2	7	4	10	1	9	8	6

When we apply p(10) on K.

then output would be P_{10} = 1000001100

P_{10} = 10000 | 01100

Left shift-1 = 00001 | 10000

Then apply p(8) permutation.

According to p(8) permutation

input :	1	2	3	4	5	6	7	8	9	10
output:	6	3	7	4	8	5	10	9		

~~Now perform Left shift-2=~~

p(8) = 10100100 → (K1)

Now after Leftshift-2.
answer would be

Leftshift-2 = 00100 00011

then again apply P(8) on Leftshift-2

so answer would be

P8 = 01000 011 —(K2)

Like this K1 & K2 would be cakulat