Assignment 1: 7-segment display. DIVYANK SHARMA

A.) Steps for logic minimisation for segment c:

b alg

	ABCD	C 1
0	0000	1
1	0001	9.1
2	0010	1
3	0011	1
4	0100	0 1
5	0101	1
6	0110	1
7	0111	1
8	1000	1
9	1001	1
10	1010	
-11	1011	
12	1100	- Dont cares.
13	1 101	Contre 00041.
14	1 1 10	
15	1 1 1 1	

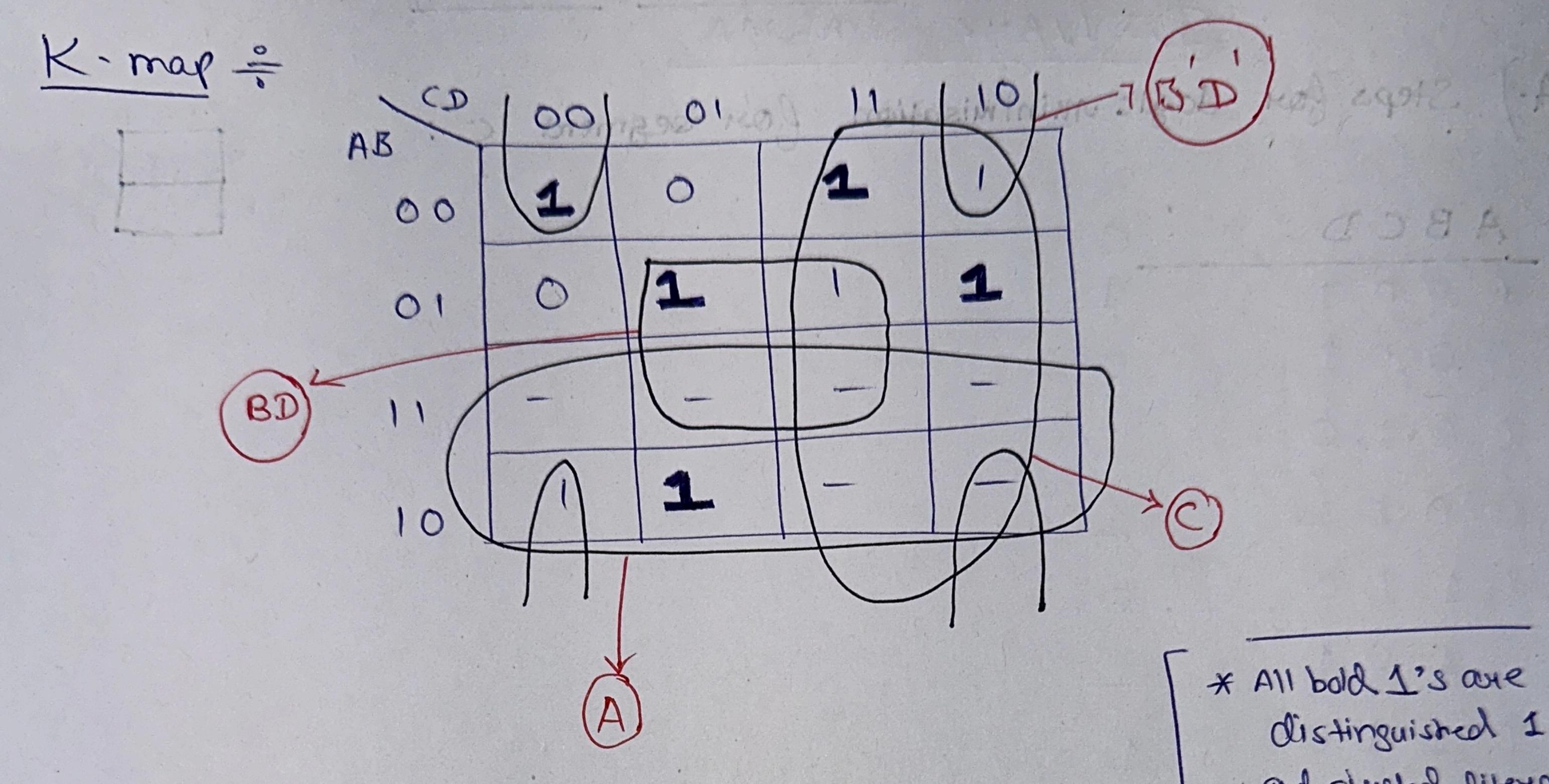
Steps for ministration =

1.] To find all prime implicants. (that cannot grown further without rovering = 4

- 2.] To Bird all clistinguished 1's (1 that is reversed by only one prime implicant) = 5
- 3.] Essential Paime implicants (those prime implicant which converts at least one distinguished 1) = 4

Then will see if all 1's are covered in essential implicant on any non-

essential implicant has to be added.



1 519mmer 8.8.

= To cover all 1's we need atteast 4 primes.

All bold I's core
distinguished I.

and circled literals are
essential literals

81's then one literals
41's then 2 literals
21's then 3 literals

4.) The minimal cover for segment "c"=7

