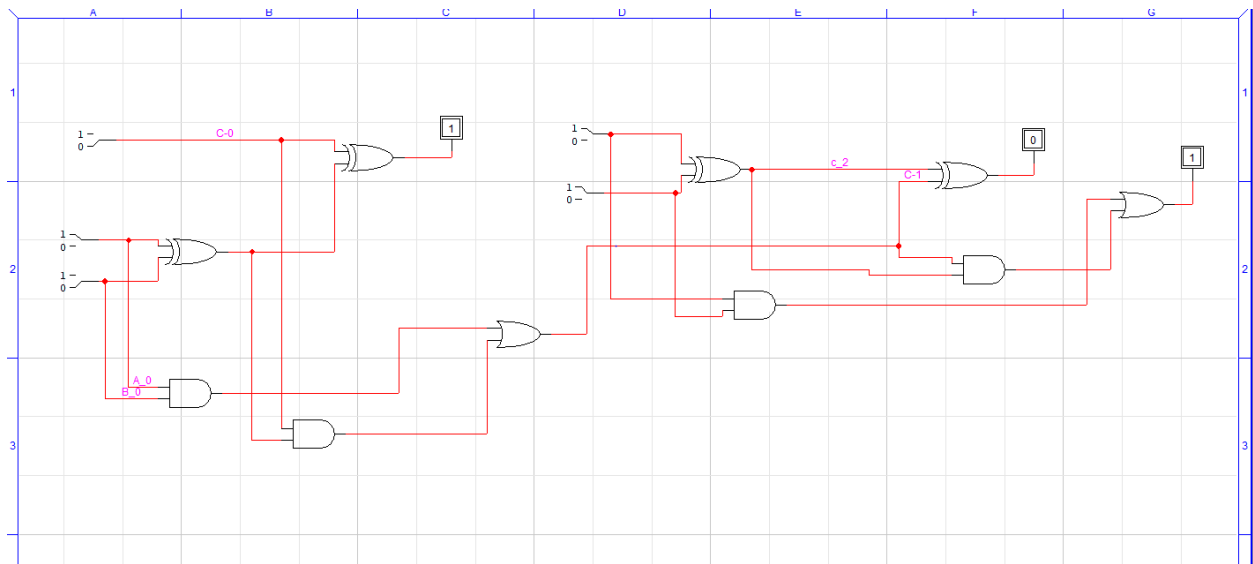


NAME : MAHAD SHAHNAWAZ

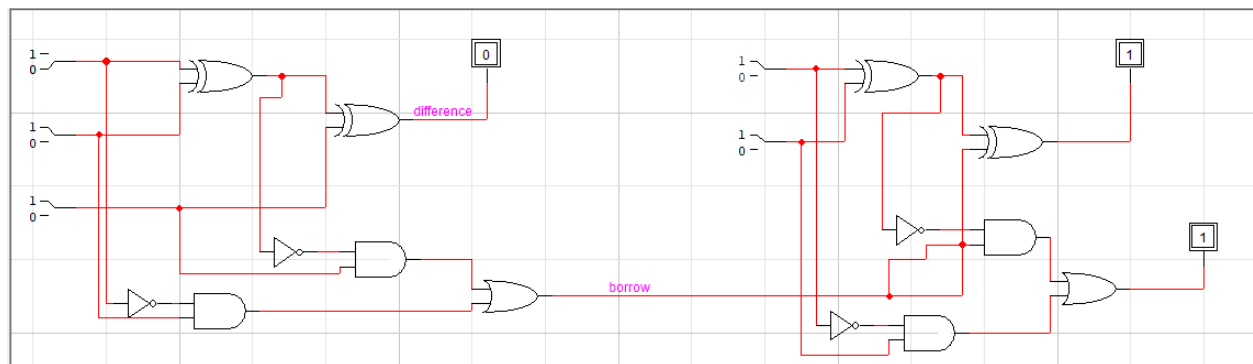
ROLL NO. : 24K-3057

## DLD LAB TASK 6:

QUESTION : 02



QUESTION : 03



QUESTION : 01

Dated: \_\_\_\_\_ LAB WORK :

QNO : 1

A	B	C	Sum	Carry
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

.) K-Map (Sum) :

AB \ C	0	1
00		1
01	1	
11		1
10	1	

.) K-Map (Carry) :

AB \ C	0	1
00		
01		1
11	1	1
10		1

i) 001  $\Rightarrow \bar{A}\bar{B}C$   
 ii) 010  $\Rightarrow \bar{A}B\bar{C}$   
 iii) 111  $\Rightarrow ABC$   
 iv) 100  $\Rightarrow A\bar{B}\bar{C}$

i) 011 + 111  $\Rightarrow \bar{A}BC + ABC \Rightarrow BC$   
 ii) 110 + 111  $\Rightarrow AB\bar{C} + ABC \Rightarrow AB$   
 iii) 111 + 101  $\Rightarrow ABC + A\bar{B}C \Rightarrow AC$

~~$\bar{A}\bar{B}C + \bar{A}B\bar{C} + A\bar{B}\bar{C} + A\bar{B}C$~~   
 $\bar{A}\bar{B}C + \bar{A}B\bar{C} + ABC + A\bar{B}\bar{C}$

$AB + BC + AC$