LAB REPORT-12

Programmable f-bit ALU

Submitted (See B)
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Ann: To design a 1 bit ALV using the given function table.

Software wed: Logisin

Provided Lable;

1	つる	E.	fo	Ale Junction	14	1 %
(0	0	0.	Zero (0)	-	0
		0		A OR B	-	A+B
		1		A AND B		A.B
		1		A KOR B		AOB
1		0	0	A Plus B	Corny	Sun
1		0	1		Borrow	difference
1		1	0		Coony	
	1	1	1	A MINUS B HINUS C	Borrow	Difference

Theory.

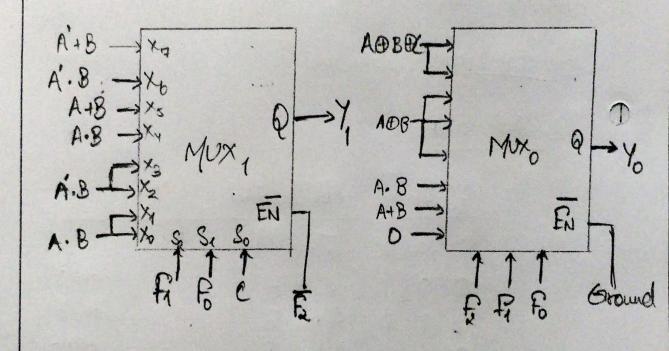
Sprest 4 functions are logical and generate 1 bit cutput.

Substitutions give & bit outputs, are arthmetic functions.

The final ALV output is generated using 28-619.

HUXS: MUTO for to and MUX, for the Required inputs and outputs are mentioned below.

MUXO is always enabled.



The inputs A.B., A'.B., A+B and A'+B can be generated using 4 2-bit MUXI.

