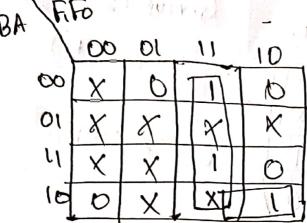
Name: Riaz Mahadi ID: 1931746012

ALUOP		Functional feild		ALOOP
Binvert	Ainvert	Fi	to	020100
1	0	0	\circ	010 (add)
1	0	t	0	110 (Sub)
1	1	Į.	0	OII (Multiply)
<i>.</i>	0	0		000 (and)
0	0	1	. 0	001 (or)
0	0		1	111 (x-oc)
- Ig				

Let Bin A, Ain = B1=e K-map for Oo Geroup (2,3,6,7) (4,6,12,H) BinsA Ainz B K-map for a FOZD 00 X Geroup = (8, 10, 12,4) 4 X OP = AD + ACD a sulf is using the set is an interest edor Gertsiku st

Oza-Konap

Let Bin=A, Ain=B Fi=C, Fo=D



Geroup (3,7,11,15)

O2= ABC+CD

Discussion!

In this prodect, of make 32 bit ALU. Firstly,
of make 16 bit project which is 16 bit. Then
of make it 32 bit by coscoding two 16
bit ALU.

tor making 16 bit ALU, of have to use three to bit ie which of make in the lab 1,2, and 3. One ie is a multiplier which is 8 bit. The nest of the two which is 8 bit. The nest of the two is Arithmetic and Logie unit. In Arithmetic unit, I use adder for doing add and subtraction. In the logie unit ie, I subtraction. In the logic unit ie, I use AND, OR, X-OR Grate for doing these operation.

then of design a ALU control unit which to mainly use for controling the whole project. 4 make ALU control unit by equation of 00,0, and or which ggot From the K-map. g. use spliter for merging the the three equation in one output. Then g make a ie ob ALU control unit. Then of use it for run the project smoothly.