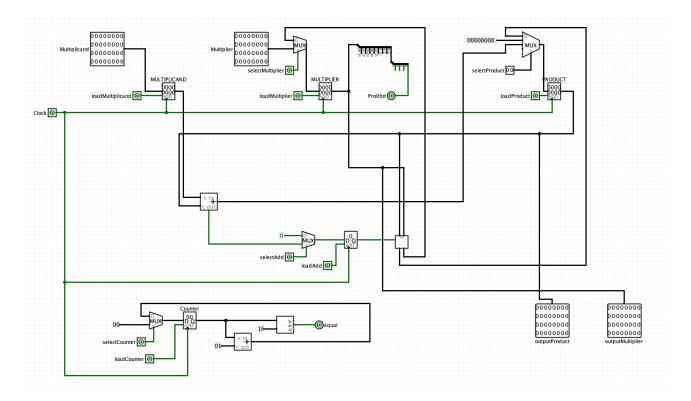
Gebze Technical University Department of Computer Engineering CSE 331 – Homework 3 Report

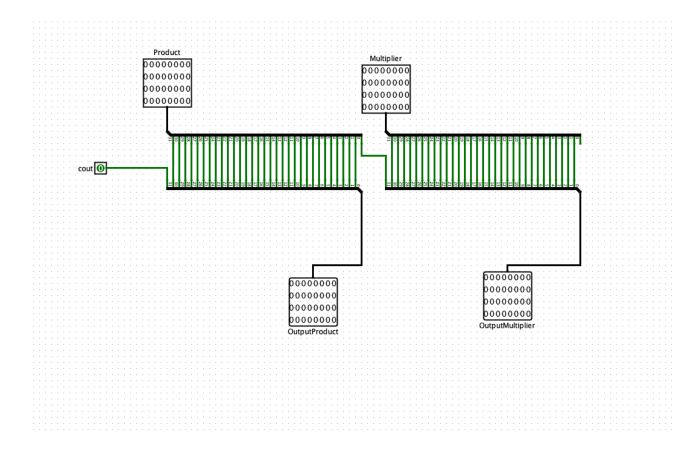
CANER KARAKAŞ

131044061

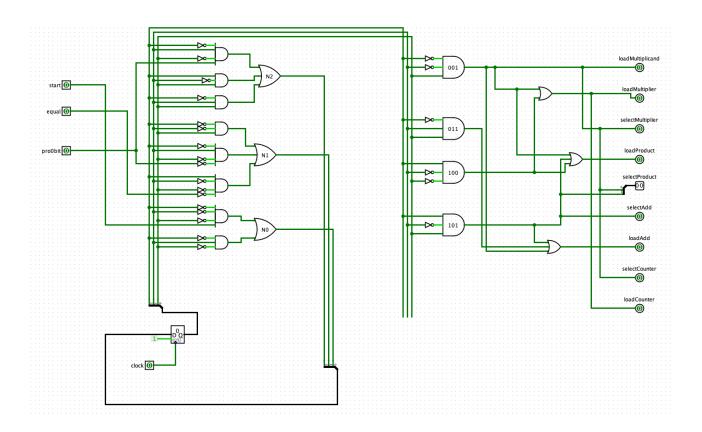
Datapath



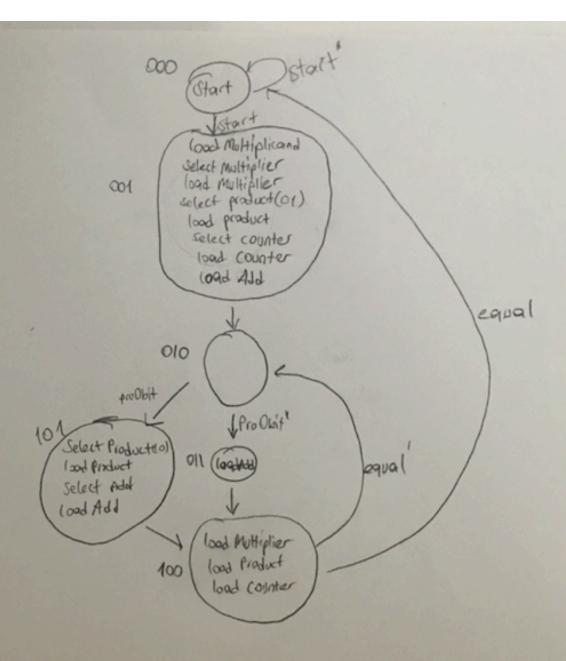
64-bit Shifter



CONTROL UNIT



S2 S1 S0	Start	Equal	Pro0bit	N2	N1	NO NO
000	0	x	x	0	0	0
000	1	x	x	0	0	1
0 0 1	x	x	x	0	1	0
010	x	x	1	1	0	1
010	x	x	0	0	1	1
101	x	x	x	1	0	0
011	×	x	x	1	0	0
100	x	0	x	0	1	0
100	×	1	×	0	0	0



N2= 52'5150' ProDbit + 5251'50 + 525150

N1= 52'51'50 + 52'5155' ProDbit + 5251'50' Equal'

N0= 52'51'50'90 + 52'5150'

TESTS

