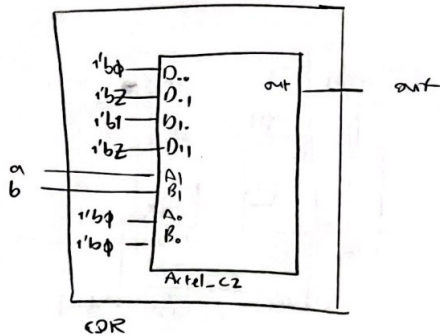
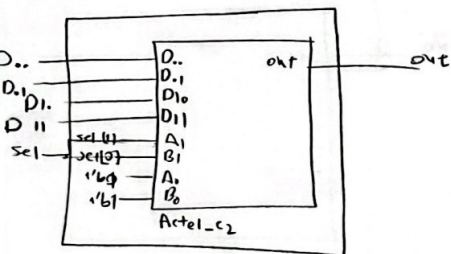


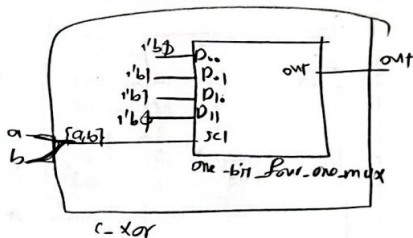
C-And



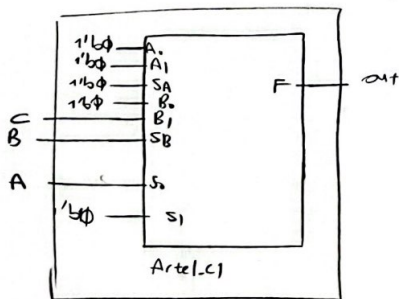
COR



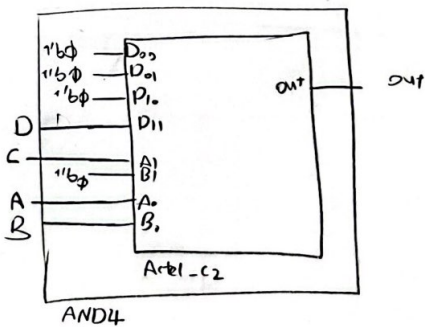
One-bit-Four-to-one-mux



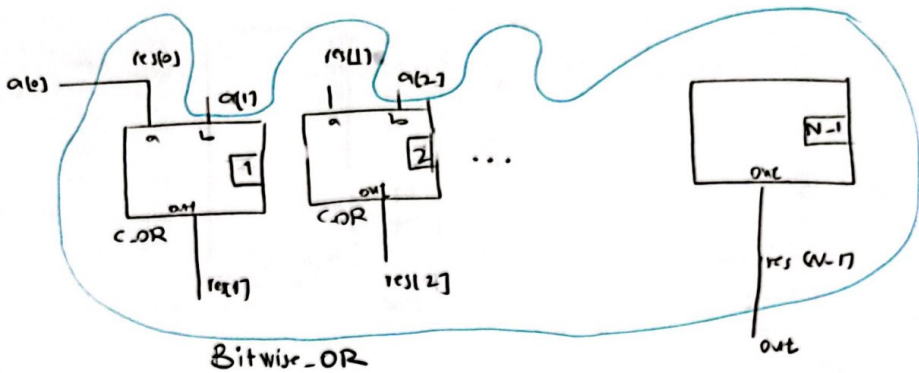
C-Xor

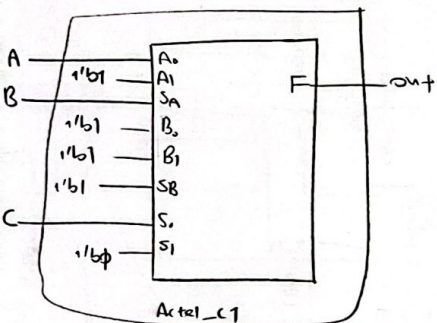


AND3

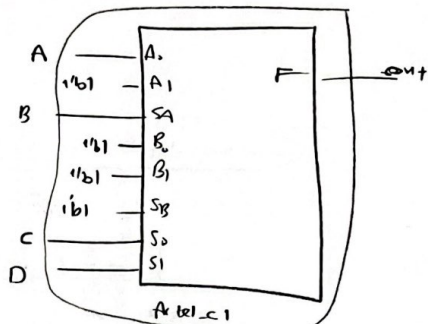


AND4

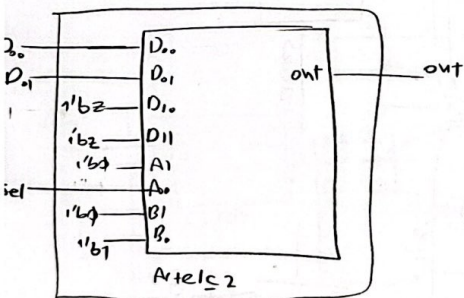




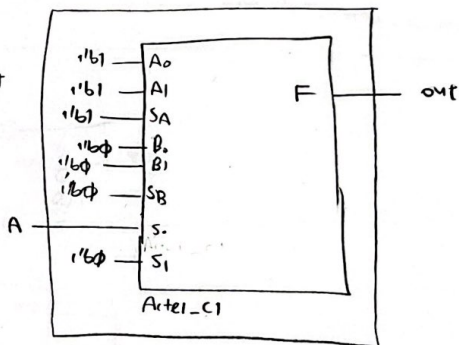
OR3



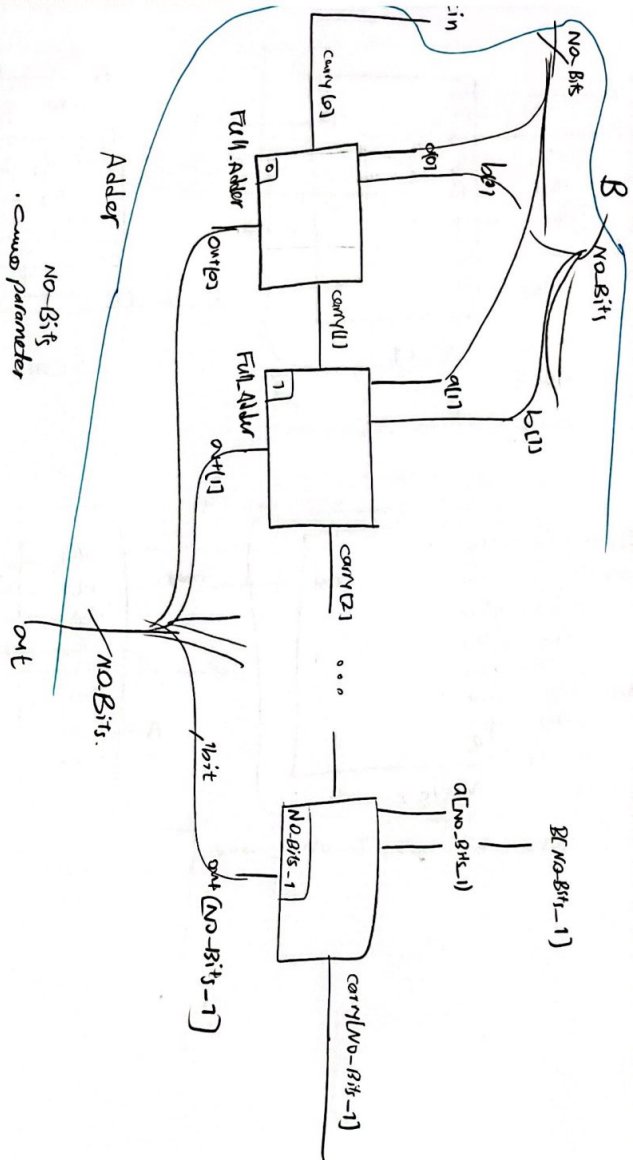
OR4

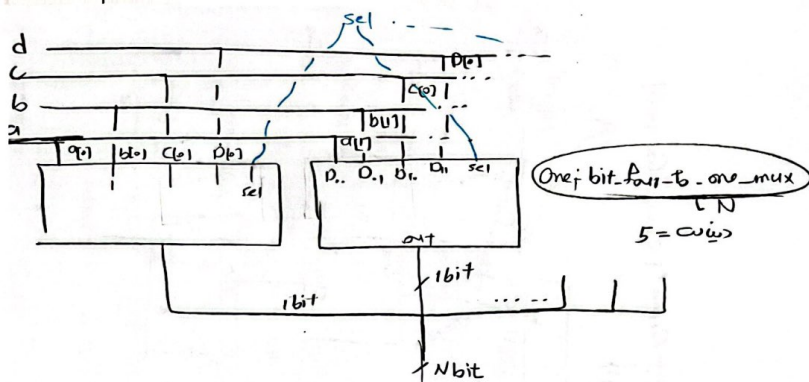


one-bit-two-to-one-mux



NOT

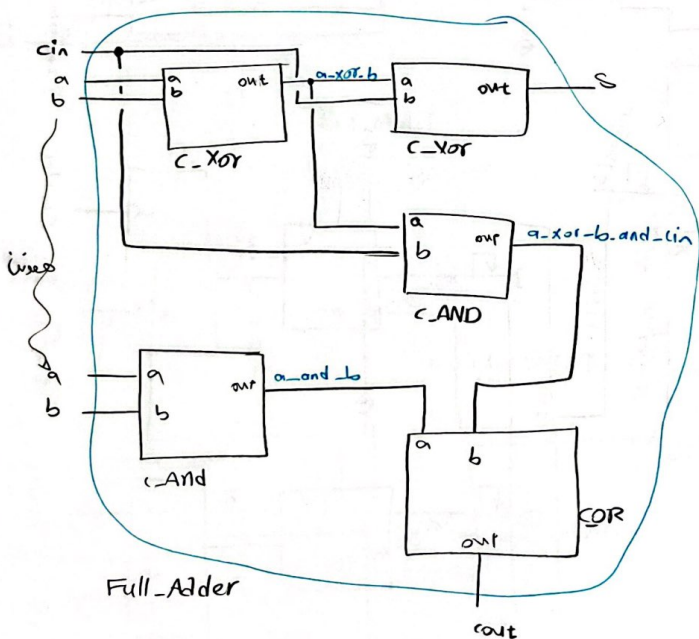


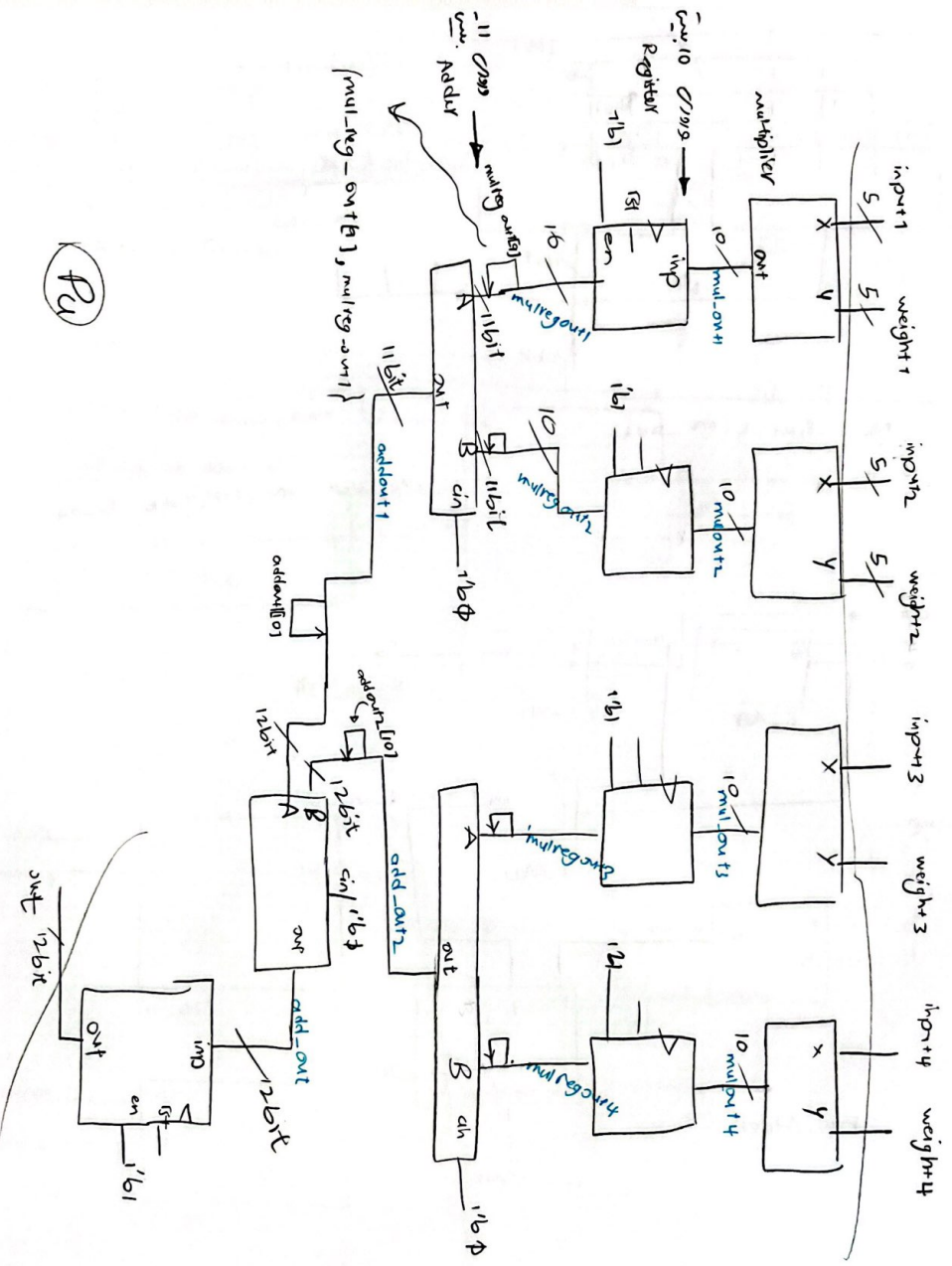


↑ ↑
 N bit four to one mux

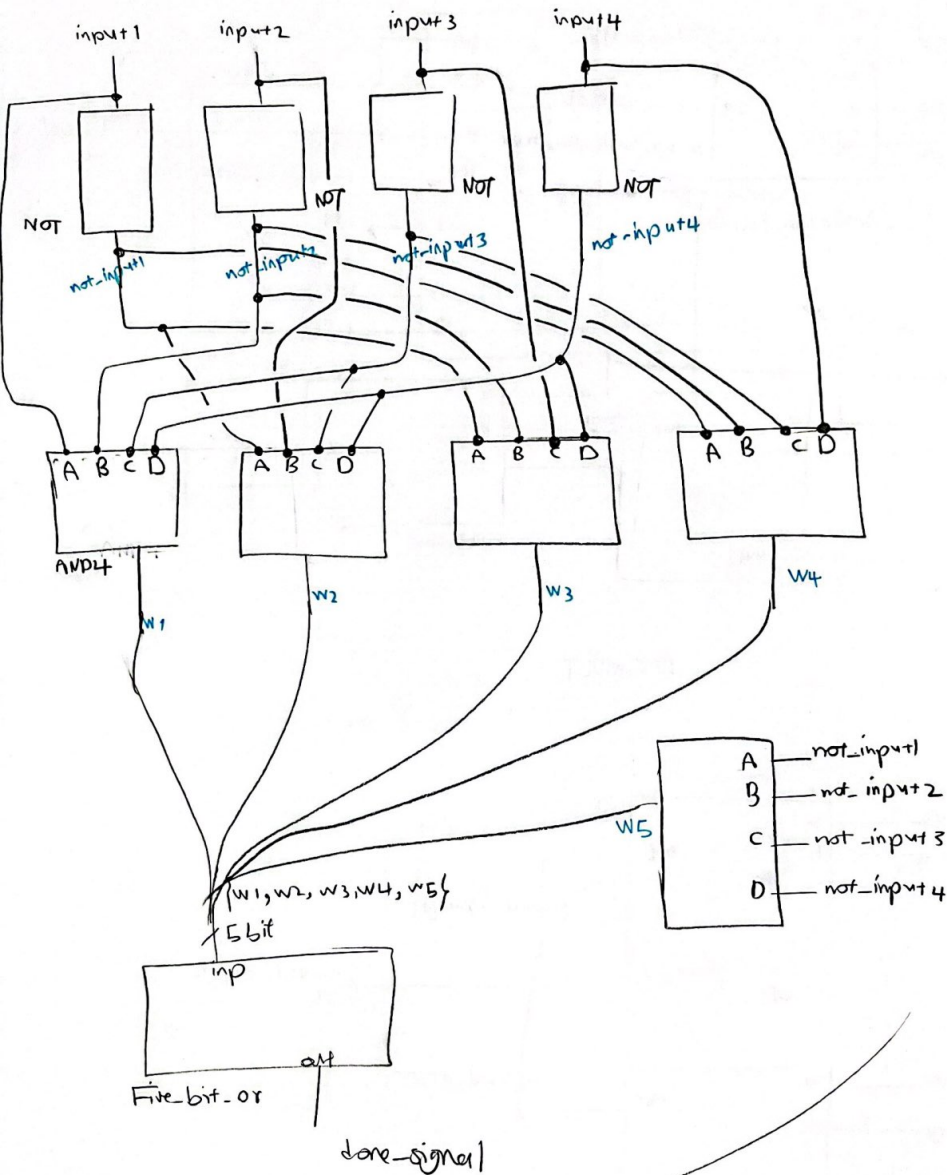
²
 mux - 2 inputs N bit two to one

Ex: 1 bit two to one
 1 bit two to one



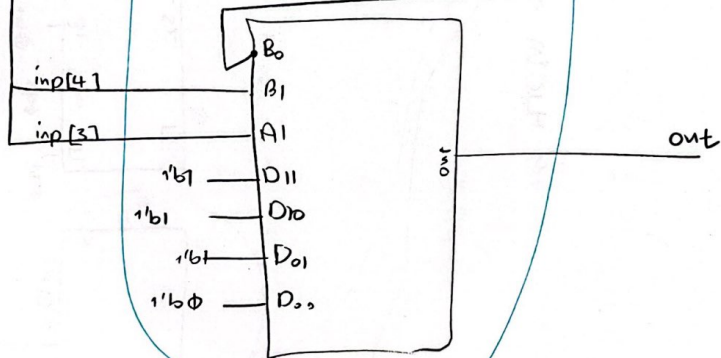
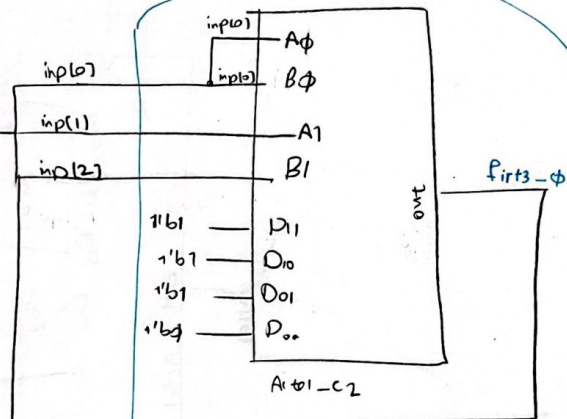


Pa



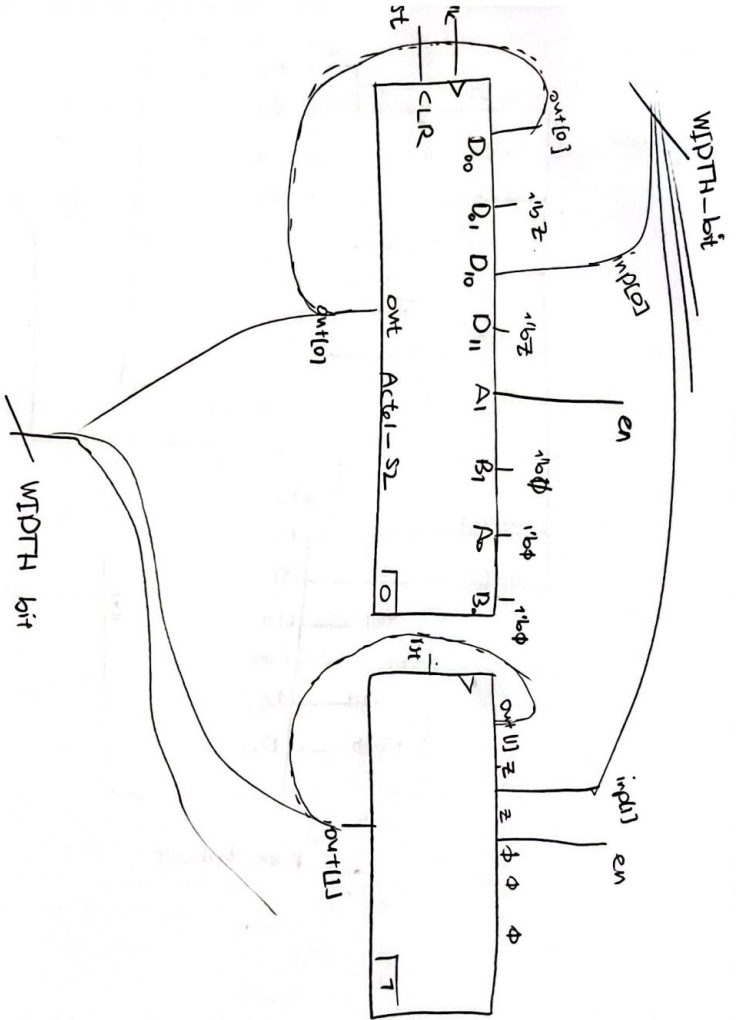
Done Checker.

inp 5bit

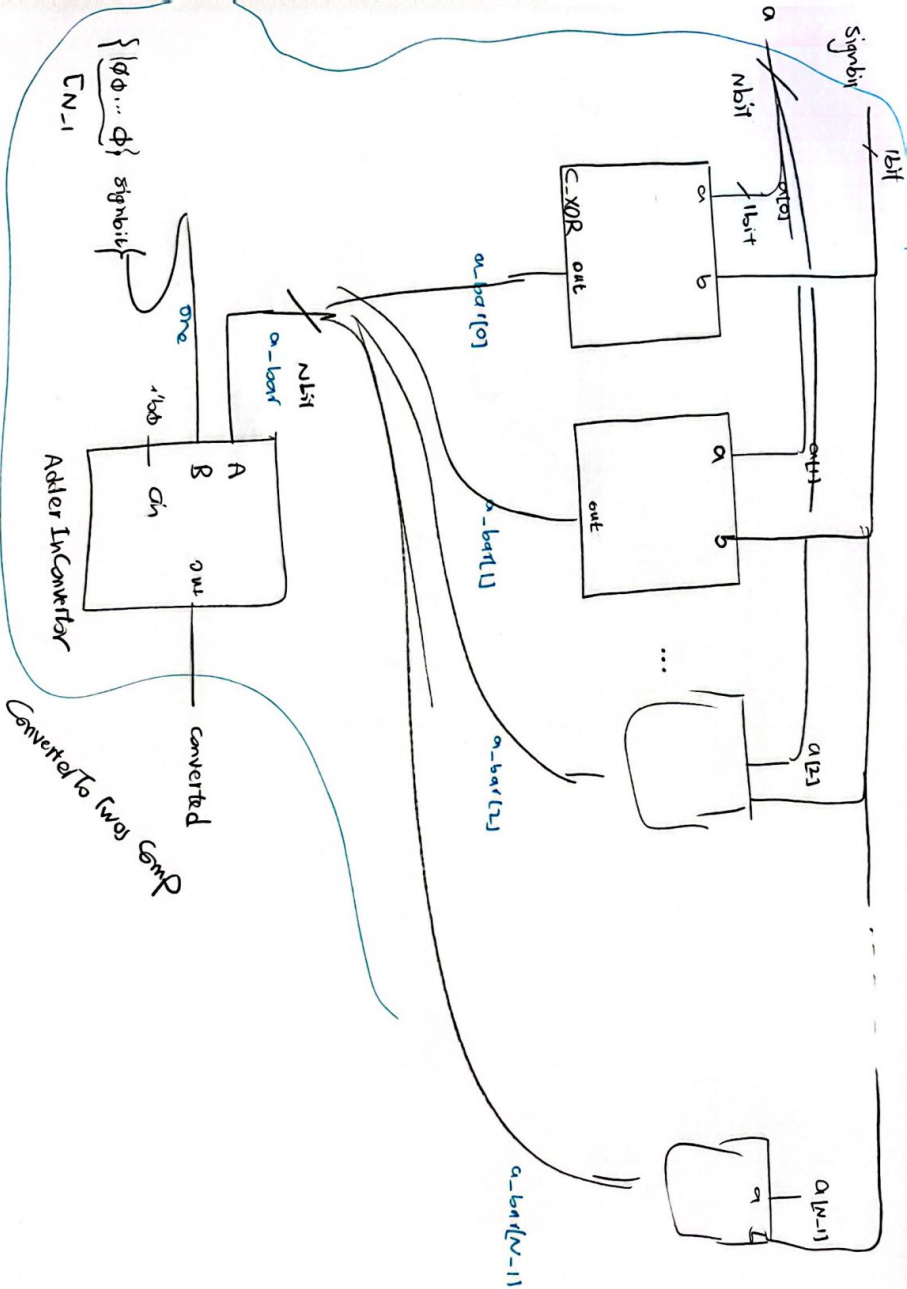


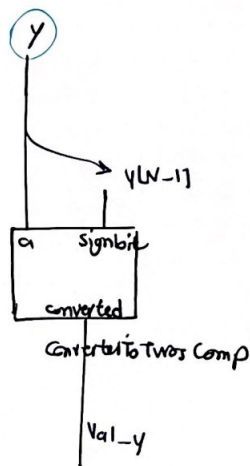
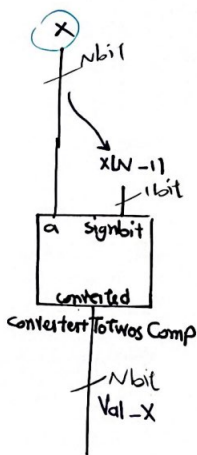
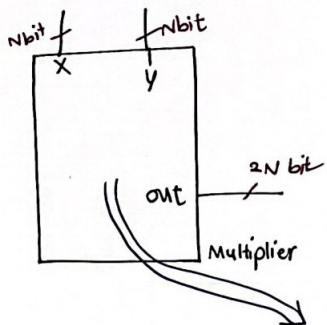
Five-bit-or

Register

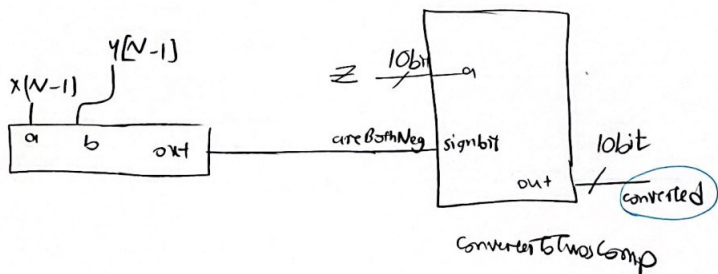



...
 WIDTH
 WIDTH
 WIDTH-1
 ...
 WIDTH-1
 ...

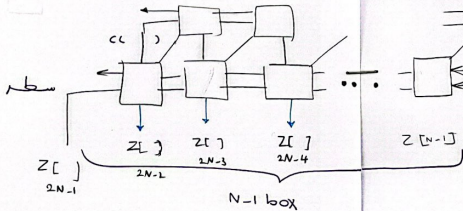
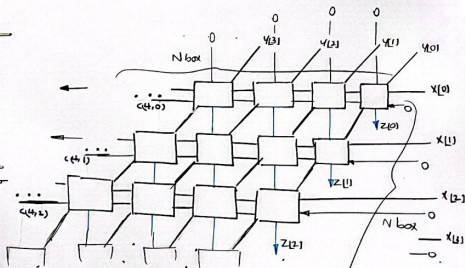


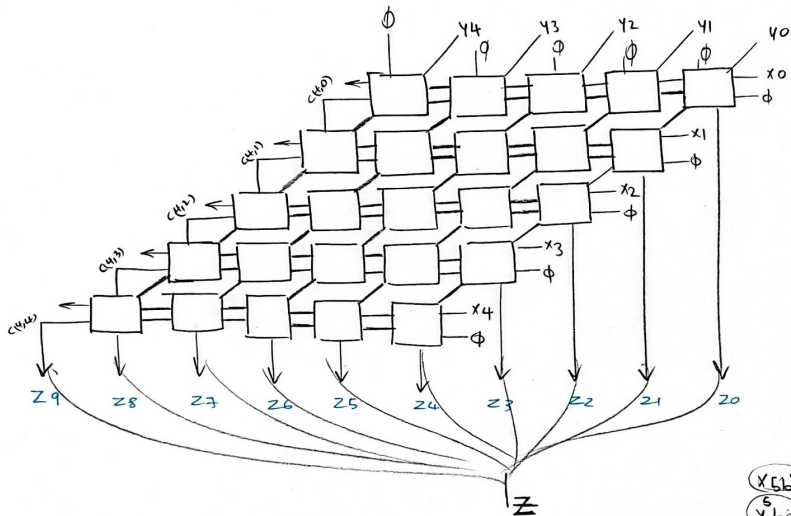


Logic اینجا
منه بهر ساد



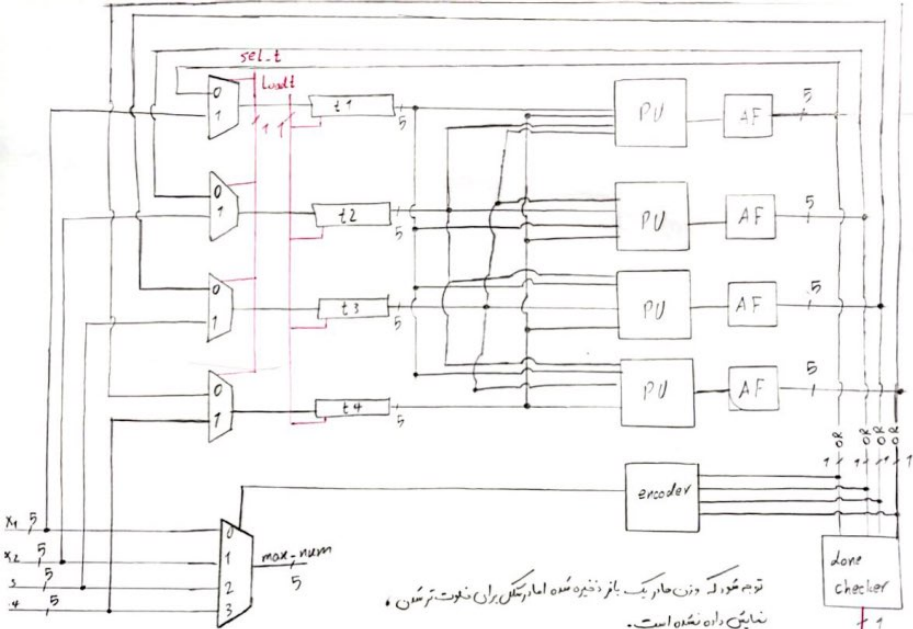

 ضربی کلاسیک
 Bit MULT





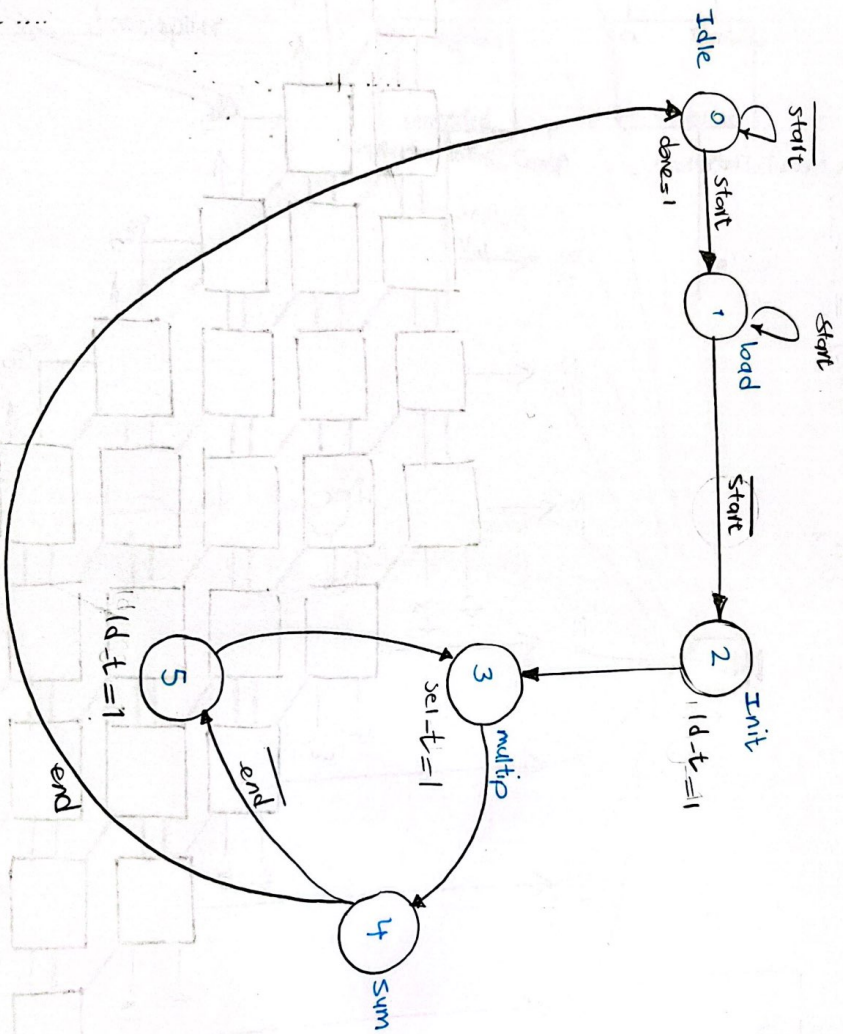
ملا⁰ و 5 بت = 5 بت⁰

5 bit
5 bit
10 bit
ملا



توابع محدود و زن جاری یک بافر ذخیره شده اما در شکل برای خروجی ترسیم شده
 نمایش داده نشده است.
 برای خروجی، clk و رجیستر نمایش داده نشده است

DP-done



Mobina Mehrazar 810100216

810100236 Mohammad amin yousefi

end = 1

PS₂ PS₁

PS₀ S

	00	01	11	10
00	0	1	-	0
01	1	1	-	0
11	1	0	-	1
10	0	0	-	1

end = 0

PS₂ PS₁

	00	01	11	10
00	0	0	-	1
01	1	1	-	1
11	1	0	-	1
10	0	0	-	1

ns[0]

	00	01	11	10
00	0	1	-	0
01	0	1	-	0
11	0	0	-	1
10	1	0	-	1

	00	01	11	10
00	0	1	-	0
01	0	1	-	0
11	0	0	-	1
10	1	0	-	1

ns[1]

	00	01	11	10
00	0	0	-	0
01	0	0	-	0
11	0	1	-	0
10	0	1	-	0

	00	01	11	10
00	0	0	-	1
01	0	0	-	1
11	0	1	-	0
10	0	1	-	0

ns[2]

$$ns[0] = PS[1] \overline{PS[0]} + PS[2] PS[0] + \overline{finish} PS[2] + start \overline{PS[1]} \overline{PS[2]}_D$$

$$ns[1] = PS[1] \overline{PS[0]} + PS[0] PS[2] + PS[0] \overline{PS[1]} \overline{start} \square$$

$$ns[2] = PS[0] PS[1] + \overline{PS[0]} PS[2] \overline{finish} b$$

on the lines

column

start

finish

✓ $\overline{start} \overline{finish} PS$