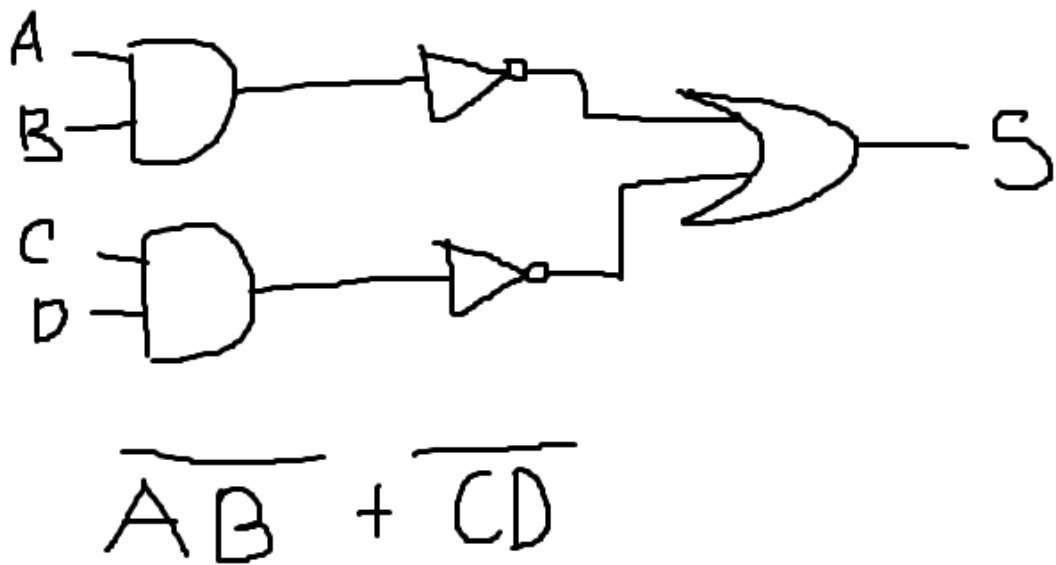
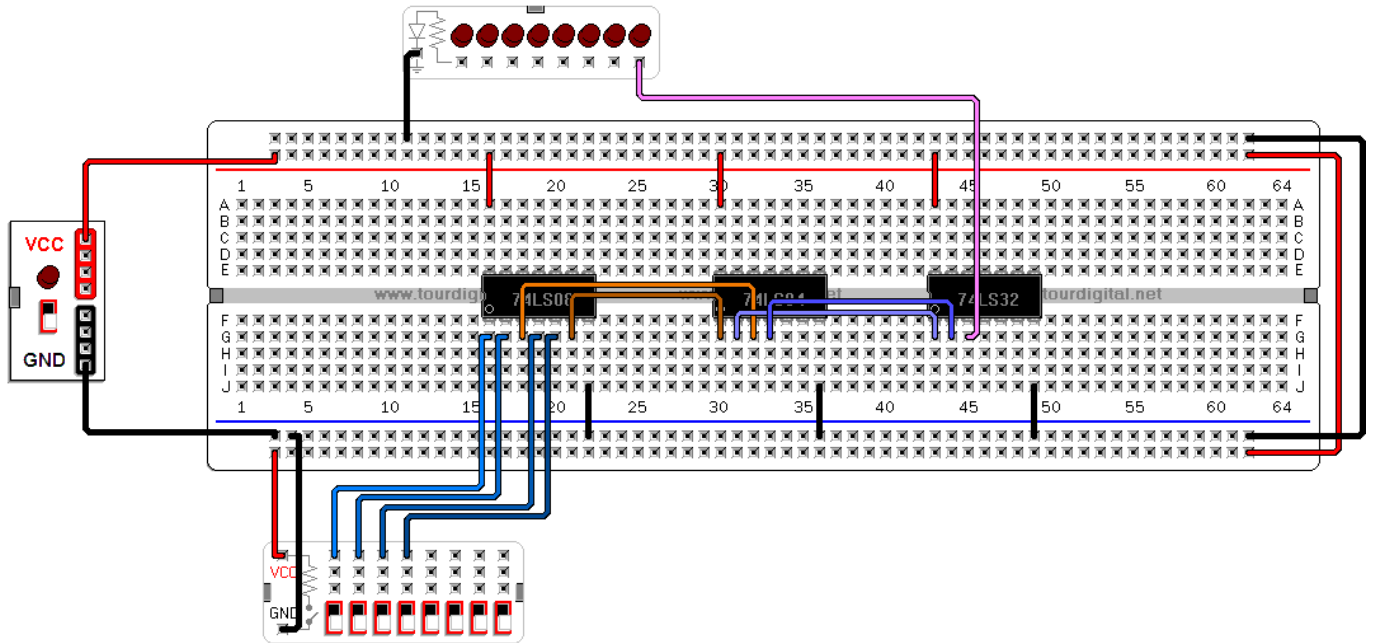
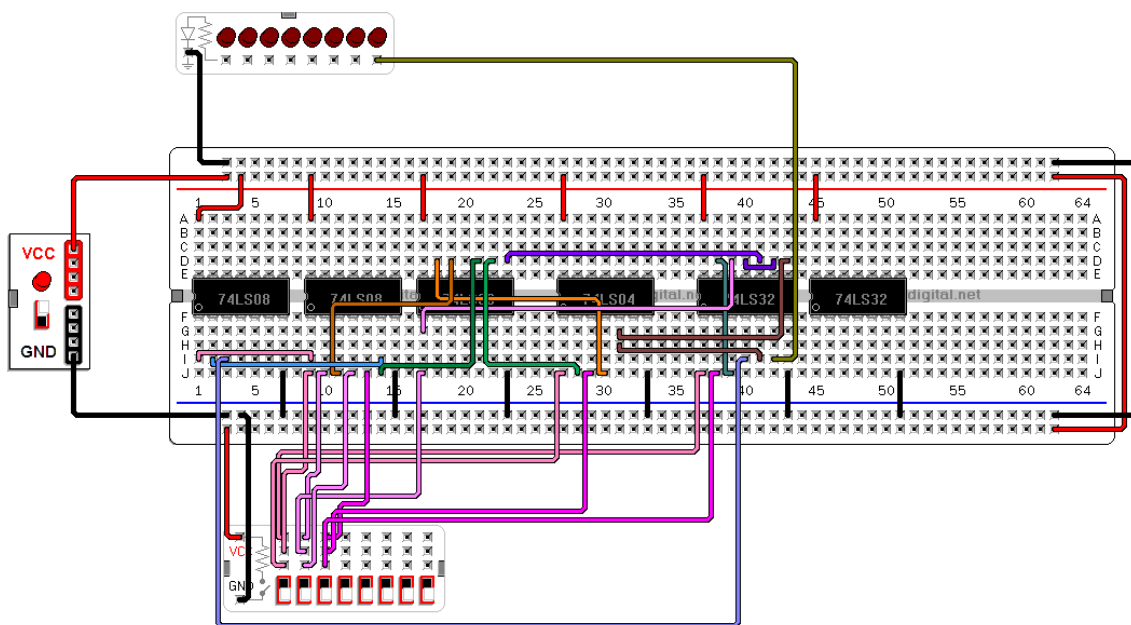


- Protoboard #1

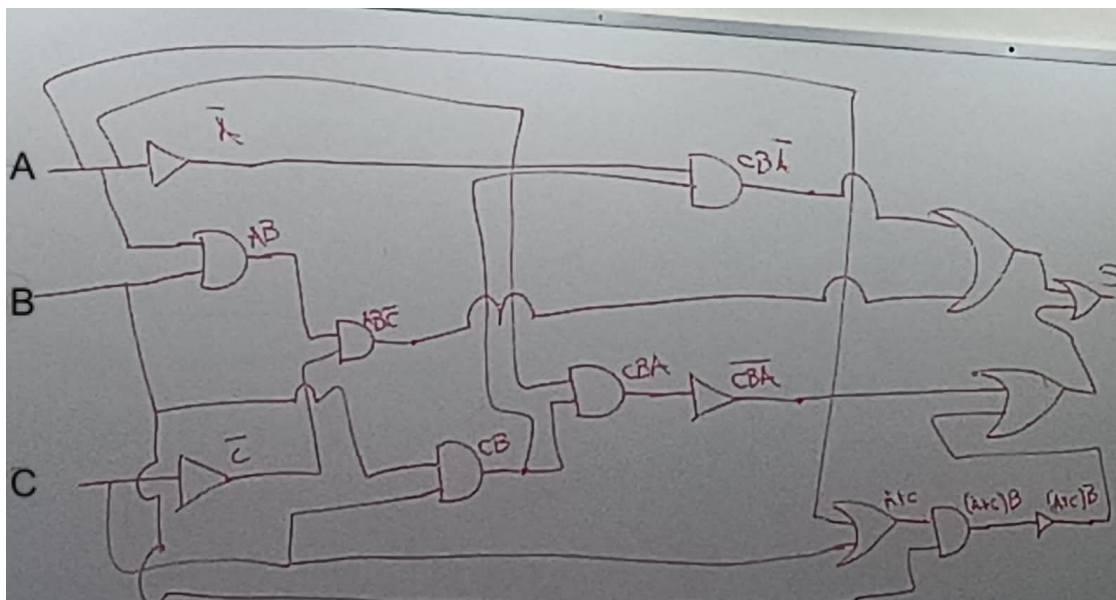


A	B	C	D	AB	$\neg AB$	CD	$\neg CD$	$\neg AB + \neg CD$
0	0	0	0	0	1	0	1	1
0	0	0	1	0	1	0	1	1
0	0	1	0	0	1	0	1	1
0	0	1	1	0	1	1	0	1
0	1	0	0	0	1	0	1	1
0	1	0	1	0	1	0	1	1
0	1	1	0	0	1	0	1	1
0	1	1	1	0	1	1	0	1
1	0	0	0	0	1	0	1	1
1	0	0	1	0	1	0	1	1
1	0	1	0	0	1	0	1	1
1	0	1	1	0	1	1	0	1
1	1	0	0	1	0	0	1	1
1	1	0	1	1	0	0	1	1
1	1	1	0	1	0	0	1	1
1	1	1	1	1	0	1	0	0

● Protoboard #2

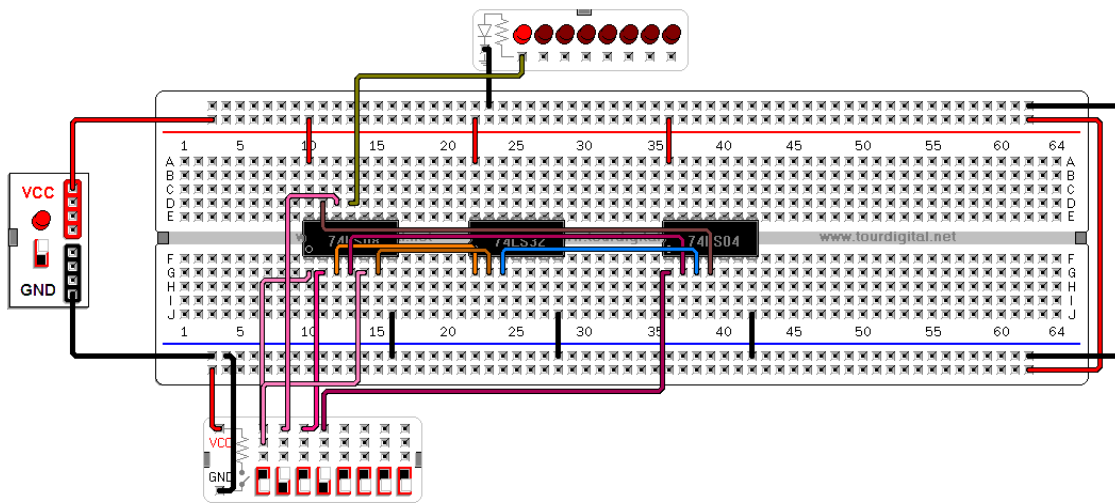


$$(A\overline{B}\overline{C} + (\overline{C}B)A + \overline{A}CB + \overline{B}CC + A)$$

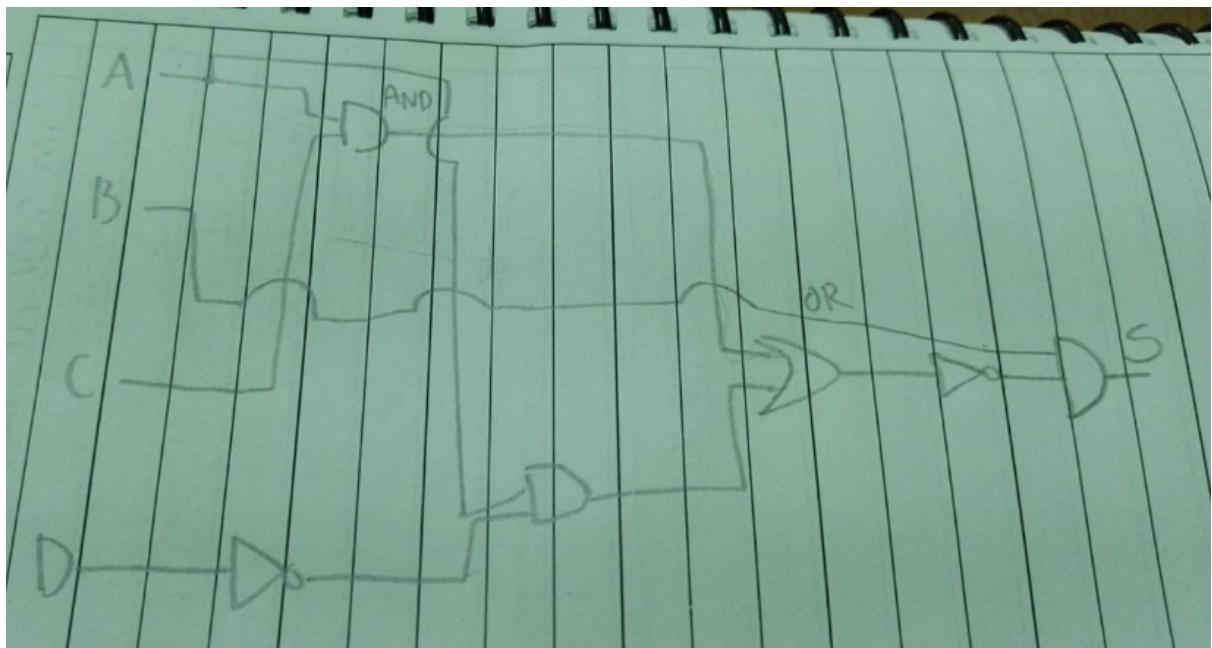


A	B	C	$\neg A$	$\neg C$	AB	$AB\neg C$	CB	CBA	$\neg CBA$	$\neg A CB$	A+C	$(A+C)B$	$\neg(A+C)B$	R
0	0	0	1	1	0	0	0	0	1	0	0	0	1	1
0	0	1	1	0	0	0	0	0	1	0	1	0	1	1
0	1	0	1	1	0	0	0	0	1	0	0	0	1	1
0	1	1	1	0	0	0	1	0	1	1	1	1	0	1
1	0	0	0	1	0	0	0	0	1	0	1	0	1	1
1	0	1	0	0	0	0	0	0	1	0	1	0	1	1
1	1	0	0	1	1	1	0	0	1	0	1	1	0	1
1	1	1	0	0	1	0	1	1	0	0	1	1	0	0

- **Protoboard #3**

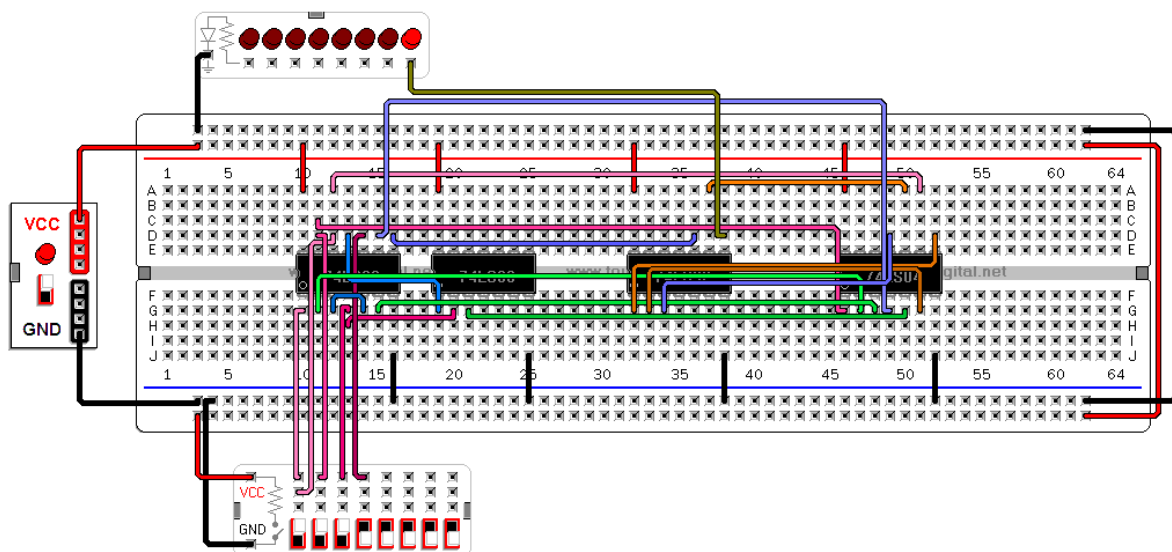


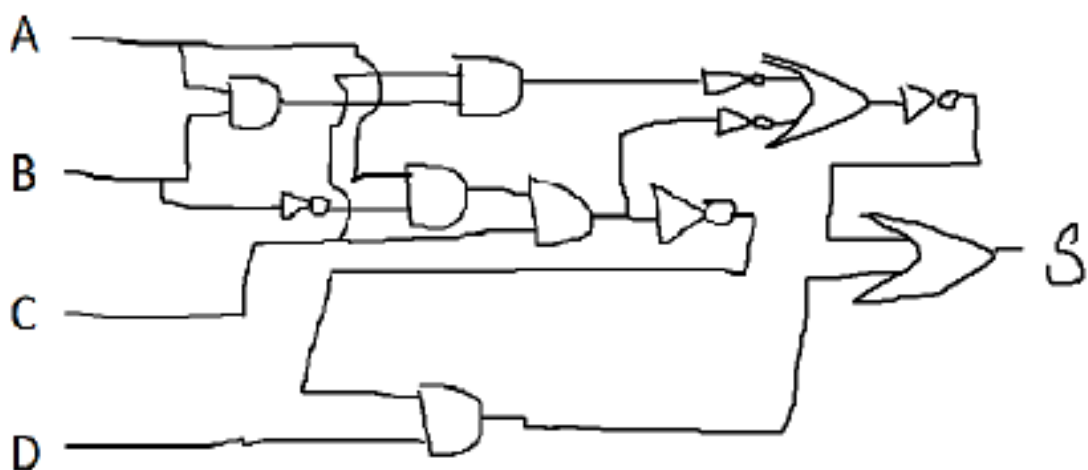
$$(AC + \overline{D}A)B$$



A	B	C	D	AC	$\neg D$	$\neg D^A$	$AC + \neg D A$	$\neg AC + \neg DA$	$\neg(AC + \neg DA)B$
0	0	0	0	0	1	0	0	1	0
0	0	0	1	0	0	0	0	1	0
0	0	1	0	0	1	0	0	1	0
0	0	1	1	0	0	0	0	1	0
0	1	0	0	0	1	0	0	1	1
0	1	0	1	0	0	0	0	1	1
0	1	1	0	0	1	0	0	1	1
0	1	1	1	0	0	0	0	1	1
1	0	0	0	0	1	1	1	0	0
1	0	0	1	0	0	0	0	1	0
1	0	1	0	1	1	1	1	0	0
1	0	1	1	1	0	0	1	0	0
1	1	0	0	0	1	1	1	0	0
1	1	0	1	0	0	0	0	1	1
1	1	1	0	1	1	1	1	0	0
1	1	1	1	1	0	0	1	0	0

- Protoboard #4





$$\overline{(\overline{ABCD}) + (\overline{ABC + A})}$$

A	B	C	D	$\neg B$	$A \neg B C$	$\neg A \neg B C$	$\neg A \neg B C D$	ABC	$\neg ABC$	$\neg ABC + \neg A$	$\neg(ABC + A)$	$\neg(\neg ABC D) + \neg(ABC + \neg A)$
0	0	0	0	1	0	1	0	0	1	1	0	0
0	0	0	1	1	0	1	1	0	1	1	0	1
0	0	1	0	1	0	1	0	0	1	1	0	0
0	0	1	1	1	0	1	1	0	1	1	0	1
0	1	0	0	0	0	1	0	0	1	1	0	0
0	1	0	1	0	0	1	1	0	1	1	0	1
0	1	1	0	0	0	1	0	0	1	1	0	0
0	1	1	1	0	0	1	1	0	1	1	0	1
1	0	0	0	1	0	1	0	0	1	1	0	0
1	0	0	1	1	0	1	1	0	1	1	0	1
1	0	1	0	1	1	0	0	0	1	1	0	0
1	0	1	1	1	1	0	0	0	1	1	0	0
1	1	0	0	0	0	1	0	0	1	1	0	0
1	1	0	1	0	0	1	1	0	1	1	0	1
1	1	1	0	0	0	1	0	1	0	0	1	1
1	1	1	1	0	0	1	1	1	0	0	1	1