No E-Mail submissions will be accepted.
Submission formats and file naming:
File name : Pts_firstName_lastName_lab_4
File format: pdf or MS Word format
e.g. Pts_Joe_Biden_lab_4.pdf

Reading materials

Use the following link and write a one page summary about the movie.

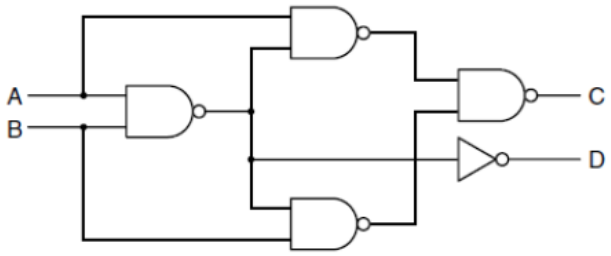
Computer History: Memory & Storage 1950-1985
https://youtu.be/9XJapKLq_6k

1) Simplify the following logical expressions using Boolean identities table?

a) A'(A' + B) = A'	b) B' + B'A = B'	c) (1 + B)' + A = A
d) (A + A')' = 0	e) (AA') ' = 1	f) A + B + (AB)'= 1
g) A + (A'+B')' = A	h) (AB)' + A' = A' + B'	k) (A'+ B)' + A = A

2) Using the following circuit obtain C and D. What does this circuit do?

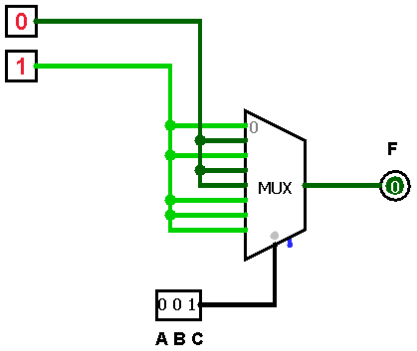
A	B	C	D
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1



Half adder
sum(res) = C
Cout = D

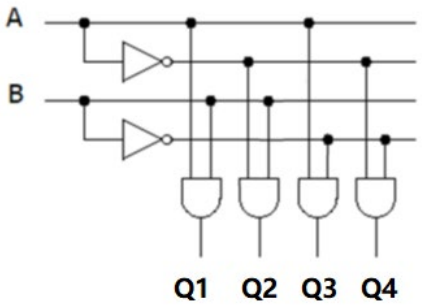
3) Given the following truth table, implement the Boolean function F using a MUX (8X1).

A	B	C	F
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	1



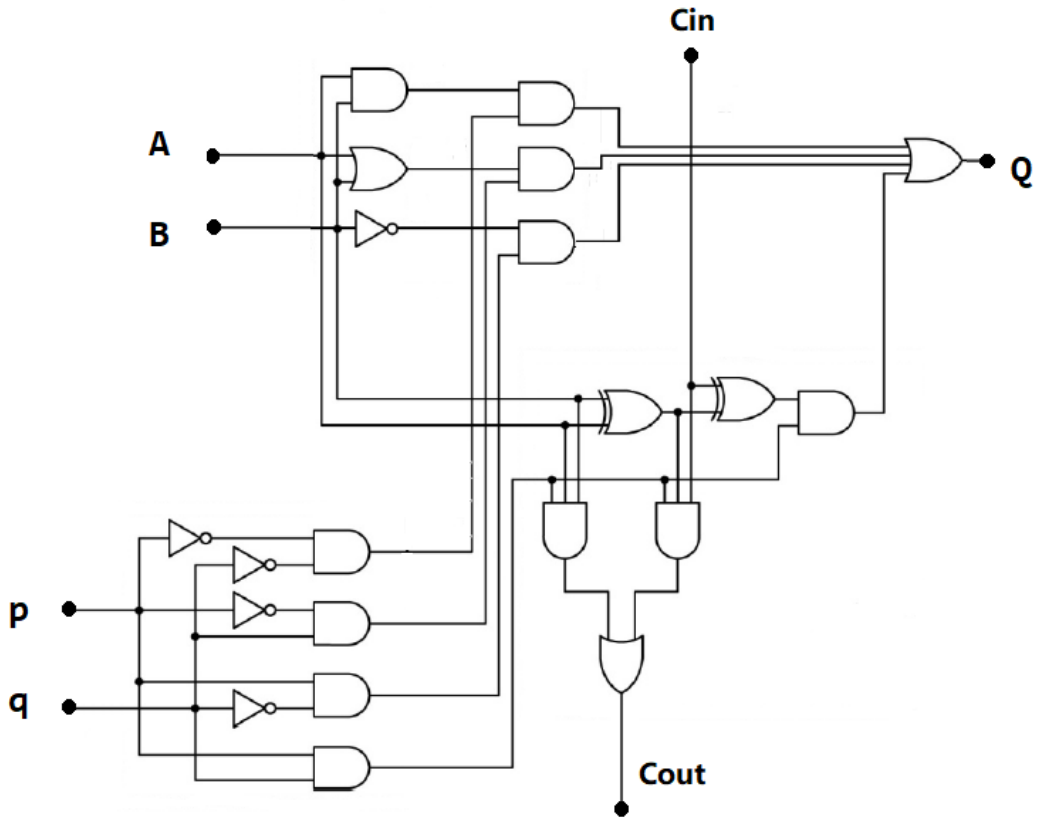
4) Consider the following circuit and obtain Q1, Q2, Q3, and Q4.

A	B	Q1	Q2	Q3	Q4
0	1	0	1	0	0
1	0	0	0	1	0



5) Consider the following circuit and obtain **Q** and **Cout**.

A	B	Cin	p	q	Q	Cout
1	1	1	1	1	1	1
1	1	0	1	0	0	0
0	1	0	0	1	1	0
1	0	0	0	0	0	0


Cin
A
B
Q
p
q
Cout