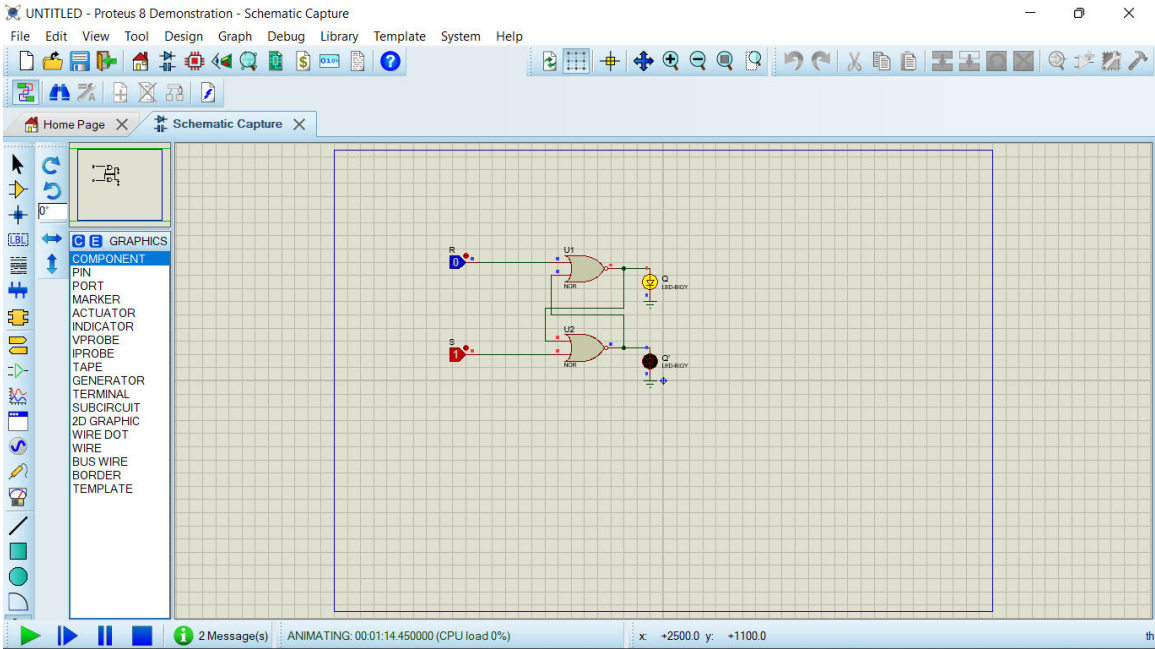


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std.no::1210084

prelab 5

SR latch



S R Q Q̄

0	0	latch	latch
0	1	1	0
1	0	0	1
1	1	0	0

how does it work::

- ❖ If $S = 1$ and $R = 0$ then Set ($Q = 1, \bar{Q} = 0$)
- ❖ If $S = 0$ and $R = 1$ then Reset ($Q = 0, \bar{Q} = 1$)
- ❖ When $S = R = 0$, Q and \bar{Q} are unchanged
- ❖ The latch stores its outputs Q and \bar{Q} as long as $S = R = 0$
- ❖ When $S = R = 1$, Q and \bar{Q} are undefined