CS 342000 | CS343000  
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Graphical user interface

Description automatically generated

**Lab 4A**

Graphical user interface

Description automatically generatedThe screenshot above follows Lab 4A’s waveform guides and shows that in this waveform Q is in an undefined state which is shown in a red line.

This time, input E is 1 always which makes output Q follows the value of input D, which is also shown in the simulation for Lab 4A.

Graphical user interface

Description automatically generatedGraphical user interface

Description automatically generatedAt the moment when input E first moves from 0 to 1, output Q leaves the undefined state and starts mirroring D. This is the same waveform as the third simulation in Lab 4A.

Output Q drops to 0 and stays there as long as CLRN is 0. This is the third setup in LAB 4A and it still follows the waveform showed.