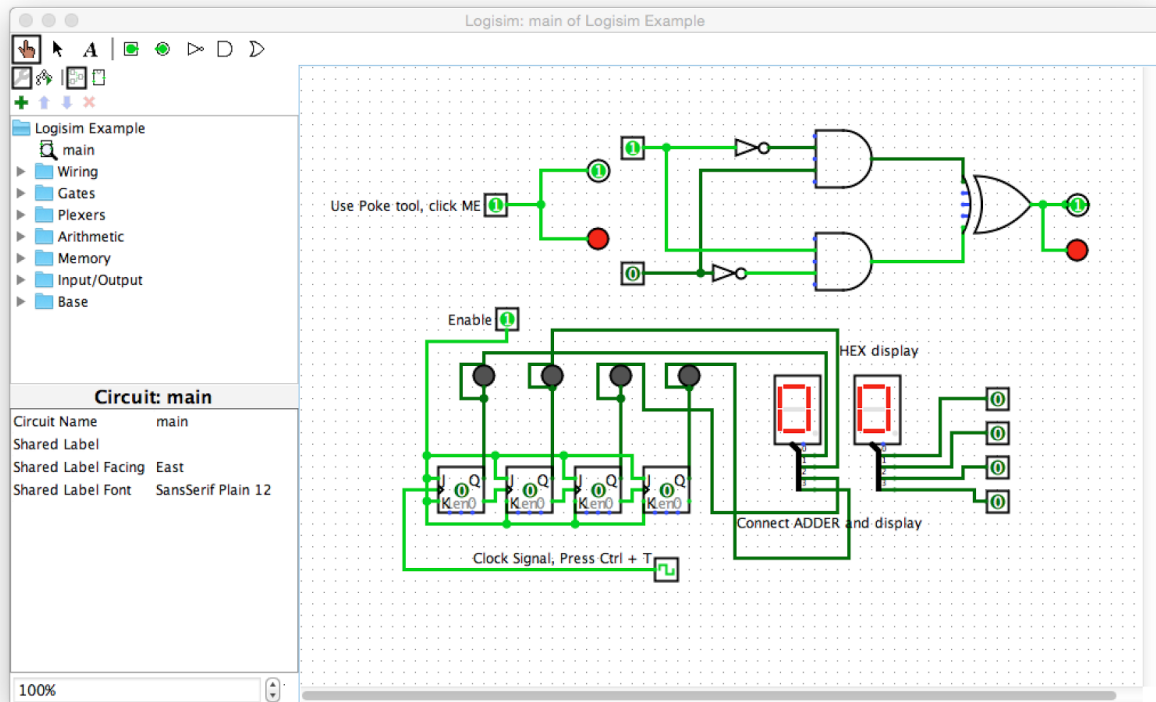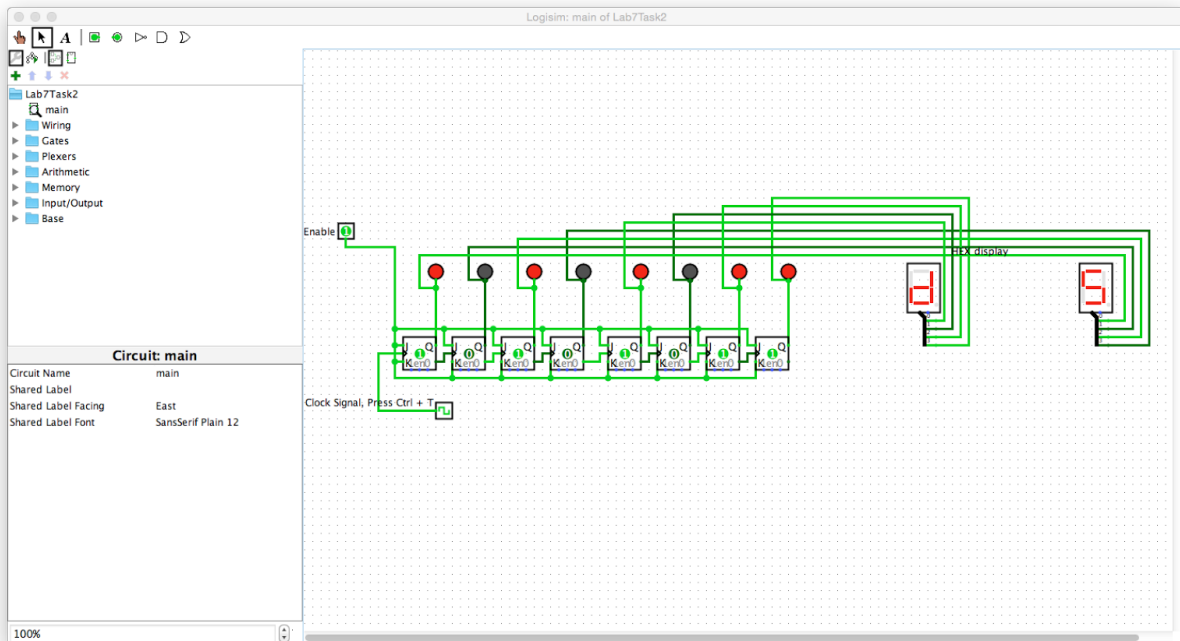Task 1: I connected the Ripple Adder to the Hex Display
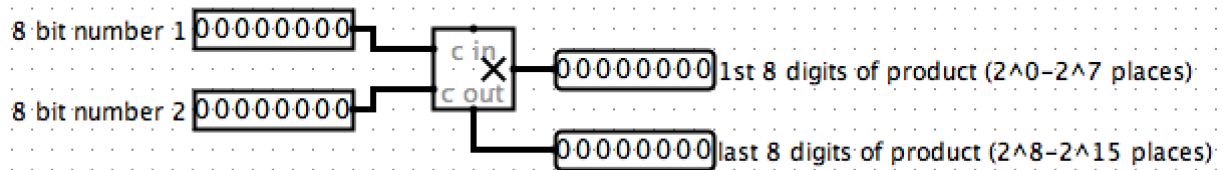

Task 2: I expanded the adder to 8 bits and connected the first 4 to the right hex display and the last 4 to the left hex display

Task 3: I created both an 8 bit multiplier and divider

8–Bit Multiplier

8 bit number 1 `00000000`

c in
×
c out

`00000000` 1st 8 digits of product (2^0–2^7 places)

8 bit number 2 `00000000`

`00000000` last 8 digits of product (2^8–2^15 places)

8 bit Divider

Dividend Upper `00010000`

Dividend Lower `00000100`

upper
÷
rem

Divisor `00000010`

`00000010` Quotient

`00000000` Remainder