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## Lab 4. Adding

Implement a circuit to do 4-bit addition. You may do this with half adders (without carry in, page. 394), the full adder (with carry in, page. 394) as discussed in class or as the fast adder with carry *lookahead,* page 395, and you can see also <https://en.wikipedia.org/wiki/Carry-lookahead_adder>, [images of circuits](https://www.google.com/search?q=fast+adder+with+carry+lookahead&client=firefox-b-1-d&tbm=isch&source=iu&ictx=1&fir=CDtKcYBUnfBe7M%253A%252CDH2Y0qEjbOdYaM%252C_&vet=1&usg=AI4_-kTT3uHynnrzZGIz8JjZavI9ChUTFg&sa=X&ved=2ahUKEwjUwovc7Y_lAhXPu54KHejnAbQQ9QEwAHoECAQQAw#imgrc=_&vet=1), and [4-bit lookahead adder](http://igovuzeneuu.changeip.com/Bit-carry-look-ahead-adder.html) ).

Use switches to manage the input and use the 7-segment led display to show the output. Add a standard LED to show the carry out after the fourth bit addition.

When you have completed the circuit, put it to Canvas as a zip file, include your name, your circuit, the name of the circuit for the assignment, and the lab number (Lab 4 in this case).

Name of the circuit file in this folder is 4BitFullAdder. Here is a picture of it.

Diagram

Description automatically generated