[**8-bit Arithmetic Logic Unit (ALU)**](https://www.youtube.com/watch?v=jLDd3z0XFQw&list=PLk4sSigu0N0W4v755N_O6Jk1WWrfWIGgm&index=11)**:**

ALU does perform 2 different tasks. Being ordered by a control sequencer , either it gives output, or does perform subtraction. Out if the 16 inputs, 8 comes from accumulator and rest 8 comes from B register. 8-bit output goes to 8-bit bus.The accumulator can also show minus when difference after subtraction is less than one.

A computer screen shot of a circuit board

Description automatically generated

Each of the repetition in the left side of sub-circuit is nothing but 2-bit full-adders while the right part is 2’s complement portion (which is done by adding 1’s complement and adding one.

A diagram of a circuit

Description automatically generated