TERM TEST 02

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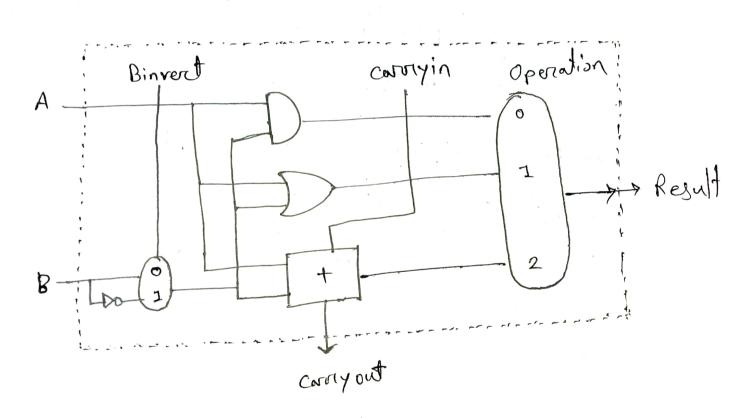
3) Single-eycle implementation is not used because the periformance of the single-cycle implementation is not good. We can not use morre on less cycles to execute each instruction, depending on the complexity of the the instruction.

Advantages of pipeline datapith:

- · Instruction throughput increases.
- · Faster ALU con be designed when pipelineng is used
 - is used · Pipelining increases the overall performance of the CPU.
 - · Pipelined CPU'S works at higher clock frequencies than the ARAM.

a digital circuit used to perform withmelic and logic operations.

Ja An 1 bit ALU is given in below:



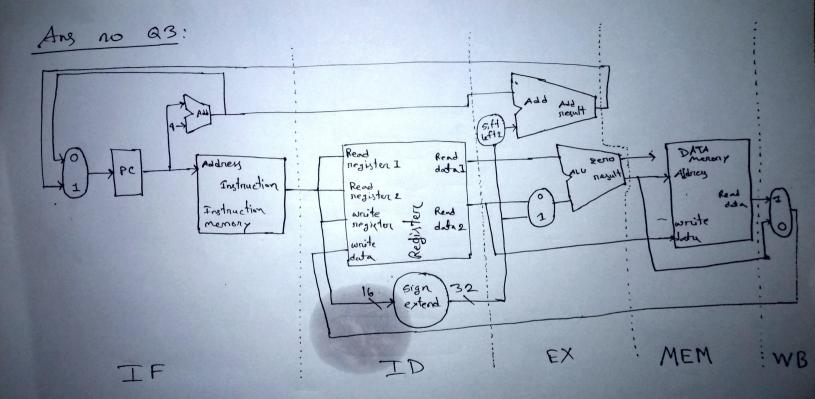


Fig: A single cycle dotapath