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So our FSM does a lot of work here, the data path only controls a small section of all the happenings. For eg, the set C and Z flag in R type instruction would also be done by the fsm itself. For the branching R type instructions, such as ADC, ADZ.. we have assumed that the addition will be done, only the transfer will be controlled by the fsm, which has access to the flags as well.

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| R Type Instructions - |  |  |
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Kisi ko koi correction karna hai to kardo , this is based on the discussion we had on Monday