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**From:** Vandana Agarwal . (via Nalanda)  
**Sent:** 11 February 2023 21:15  
**To:** RAMAKANT PANDURANG TALANKAR .  
**Subject:** 11551001318\_CS F363\_JAN\_2023: Stage 1: DFA construction

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Stage 1: DFA construction

by [Vandana Agarwal](#) . - Saturday, 11 February 2023, 8:43 PM

The DFA for the patterns given in the language specification document should be drawn on A3-sized paper and submitted tomorrow (i.e. on February 12, 2023, Sunday) during 6:30 p.m. to 8:00 p.m. in room number 6121-Z.

1. The DFA for all patterns must have only one start state.
2. You can use pencil to draw the DFA.
3. Transition to trap states can be avoided in this submission.
4. Keywords can be implemented using a lookup table and therefore the DFA need not have separate transitions . (Mark the action at appropriate accept state)
5. Length of the string is an implementation aspect and is not represented at abstract level of DFA.
6. Ensure that there is only one transition on each input from a state (to make it deterministic)
7. Each accept state must have associated actions mentioned on paper (use pen preferably). You can write the actions as psudocode as well.
8. Remember that DFA captures the patterns (regular expressions) and does not exhibit implementation aspects (e.g. length of the lexeme, transition from accept to start state etc.)
9. You will be allowed to make changes in your design of DFA, if required while you progress with your code.
10. Write the team members' names and IDs at the upper right corner of your paper.
11. Any one member of the team can submit paper assignments, but the presence of all members of the team will be essential during code submission (stage 1 and stage 2 both).
12. You will be allotted the group number at the time of submission of your DFA.
13. You can keep a snapshot of your DFA for your future reference needed while coding your lexical analyzer

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