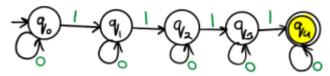
RGPV 2008

Prob 01: Designa FA which accepts set of strings containing four 1's in every string over alphabet $\Sigma = \{0, 1\}$.

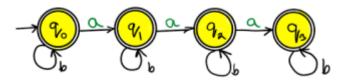
Ans. Some example strings = $\{1111,0110101,001100110\}$



RGPV 2016

Prob 02. Design NFA that accepts all strings with at most 3 a's.

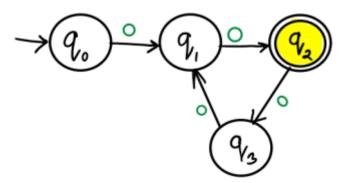
Ans. Some example strings = {aaa, baba, a, ab}



RGPV 2014

Prob 03: Construct a finite automata for the language $\{^{0n} \mid n \mod 3 = 2, n \ge 0\}$

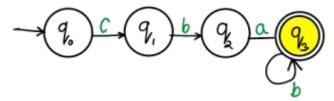
Ans. Some example strings = $\{00,00000,00000000\}$



RGPV 2016

Design a NFA for $\{cbab^n \mid n \ge 0\}$

Ans. Some example strings = {cba, cbab, cbabb}



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- 19. CNF from S->aAD;A->aB/bAB;B->b,D->d.
- 20. NDFA accepting two consecutive a's or two consecutive b's.
- 21. Regular expresion to CFG
- 22. Regular expression to Regular grammar
- 23. Grammar is ambiguous. $S \rightarrow aSbS|bSaS| \in$
- 24. leftmost and rightmost derivations
- 25. Construct Moore machine for Mealy machine