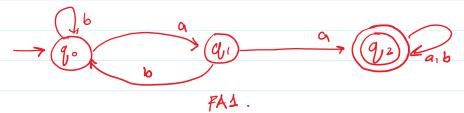
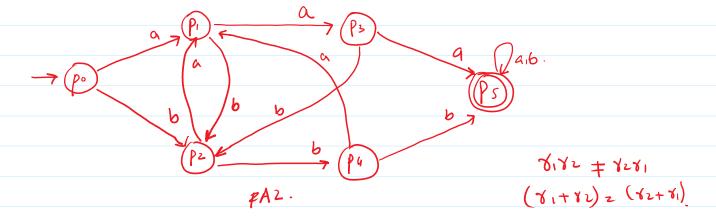
lecture 24: DPA to NPA. 1- . Uwan.

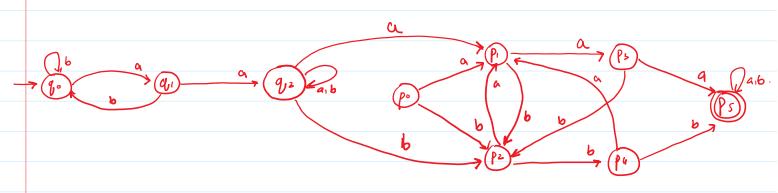
V2. Cancatenation.

Closure.





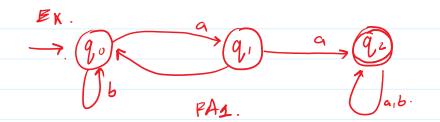
## PA1PAZ.



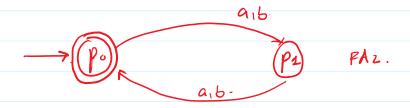
Delte Initial of PAz. Step 1: Step 2: Debih find of PAs. Step3:-PA1's find additional Housely will that of PAZS Juitra.

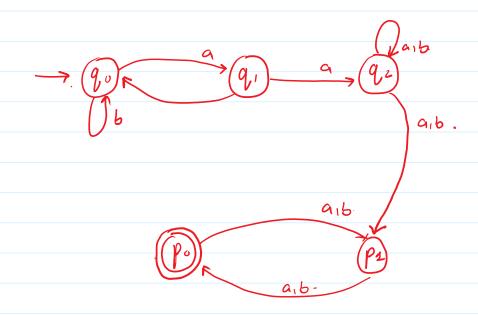
EX. a (q,2)

Null Stone

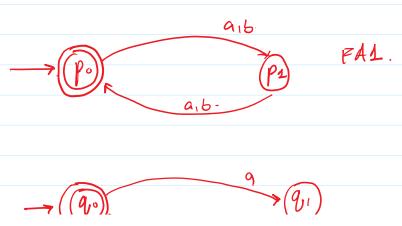


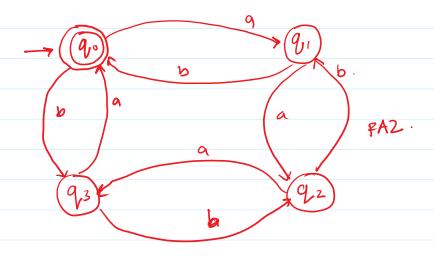
Null Storing L Mull transition E, A Null State P

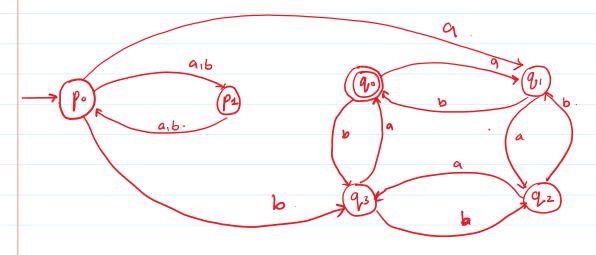




EK:





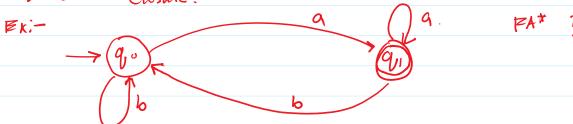


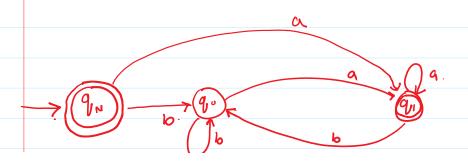
DPA to NPA.

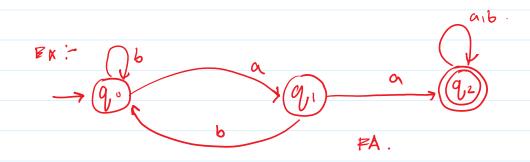
1- . Uuran.

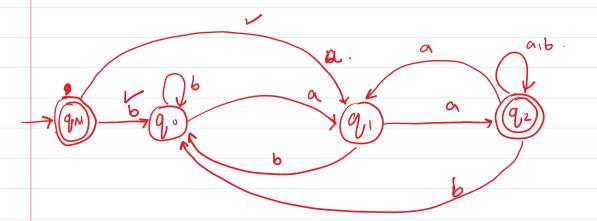
2. Cancatenation.

V3. Closurc.



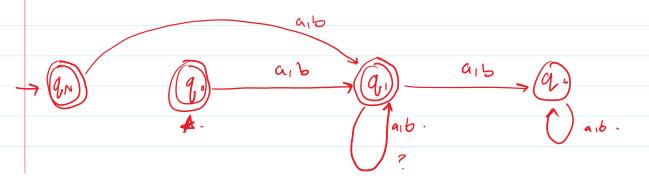


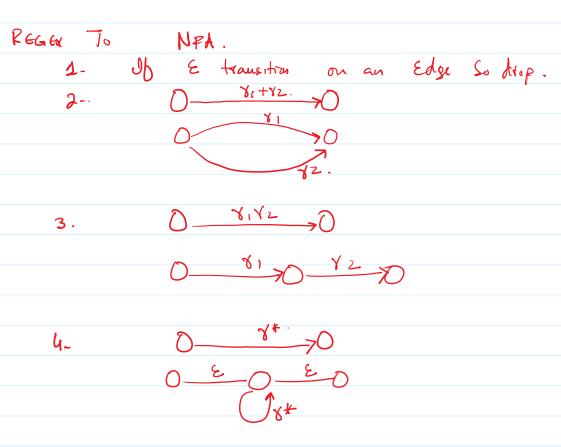




- 2- Delite Initra).
- 2. Add State (Declaring it as both Sition & frue).
- 3- Add trassition of the added State Equal to
- previous luctra.
  4: Add additional transitur for oxigenal found Equal
  to oxigenal Initial.

 $E_{K,-}$   $\rightarrow Q_{0}$   $a_{1}b$   $a_{1}b$   $a_{1}b$   $a_{1}b$   $a_{1}b$   $a_{1}b$   $a_{2}b$ 





$$(a+b)^{\dagger} c d^{\dagger}$$

$$\rightarrow 0 \qquad (a+b)^{\dagger} c d^{\dagger}$$

$$\rightarrow 0 \qquad (a+b)^{\dagger} \qquad c d^{\dagger} \qquad 0$$

$$\rightarrow 0 \qquad \varepsilon \qquad \varepsilon \qquad c d^{\dagger} \qquad 0$$

$$\rightarrow 0 \qquad \varepsilon \qquad 0 \qquad c d^{\dagger} \qquad 0$$

$$\rightarrow 0 \qquad \varepsilon \qquad 0 \qquad c d^{\dagger} \qquad 0$$

$$\rightarrow 0 \qquad \varepsilon \qquad 0 \qquad c d^{\dagger} \qquad 0$$

$$\rightarrow 0 \qquad \varepsilon \qquad 0 \qquad c d^{\dagger} \qquad 0$$

$$\rightarrow 0 \qquad \varepsilon \qquad 0 \qquad c d^{\dagger} \qquad 0$$

$$\rightarrow 0 \qquad \varepsilon \qquad 0 \qquad c d^{\dagger} \qquad 0$$

