Minimization of DFA

Mainiration of DFA

=> minimitation of DFA is required to obtain the minima version of any DFA which Consults of the minimum number of states possible.

OFA with 5 States / with 4 States

Compine (HOW?)

> Two states can be combine when they are Equivalent.

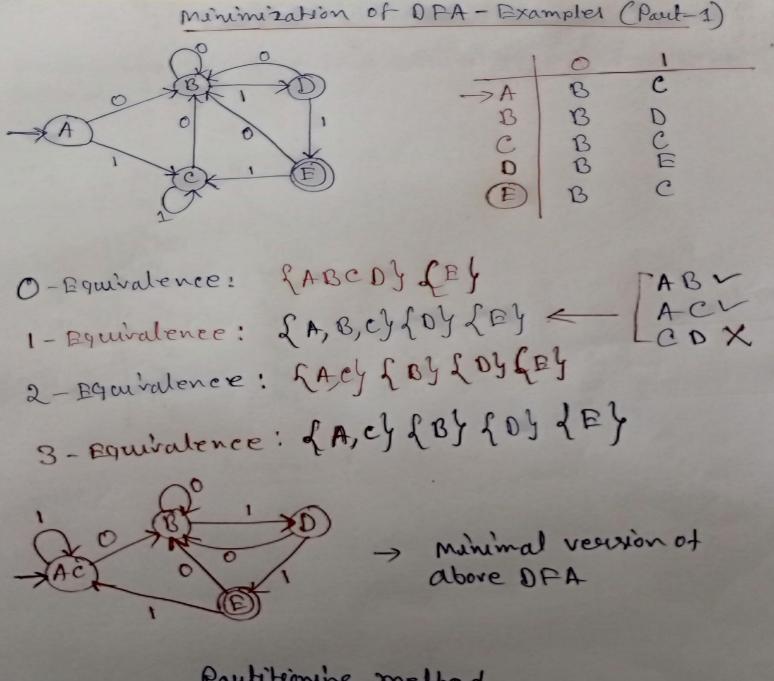
> Two states 'A' and 'B' are said to be equivalent iff

$$\delta(A, \times) \rightarrow F$$
or
 $\delta(A, \times) \rightarrow F$
or
 $\delta(A, \times) \rightarrow F$
 $\delta(A, \times) \rightarrow F$
 $\delta(B, \times) \rightarrow F$

where 'x' is any input string

> Tropes of equivalent feront of

If |x|=0, then A and B are said to be a equivalent It |x|=1, then A and B are said to be a equivalent It |x|=2, then A and B are said to be a equivalent if |x|=n, then A and B are said to be a equivalent if |x|=n, then A and B are said to be n equivalent



Poulitioning method

Minimitation of DFA - Examples (Prest-2)

=> Combuct a minimum DFA equivalent to the DFA destribed by

0	1
91	95
96	92
to	92
92	96
97	9
1	96 94 92
96	94
96	42
	9, 96 40

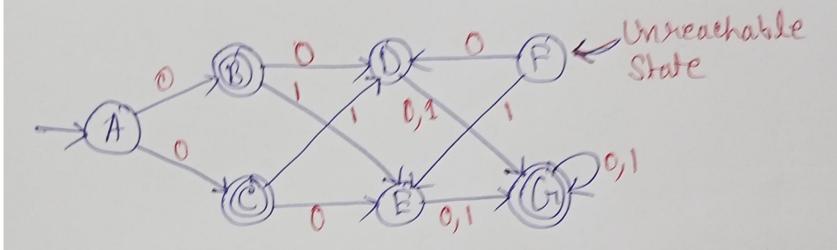
Assignment-

Milnimi Fatson of DRA-Examples => When there are more than one final states involved Minimite the following OFA: B $\rightarrow A$ B E

Assignment

Minimization of OFA-Examples

- When there are Unreachable states involved



- > A State is said to be unreachable if there is no way it can be reached from the Initial State.
- => Remove the Unreachable state from OFA.

Assignment