

⇒ Deterministic:-

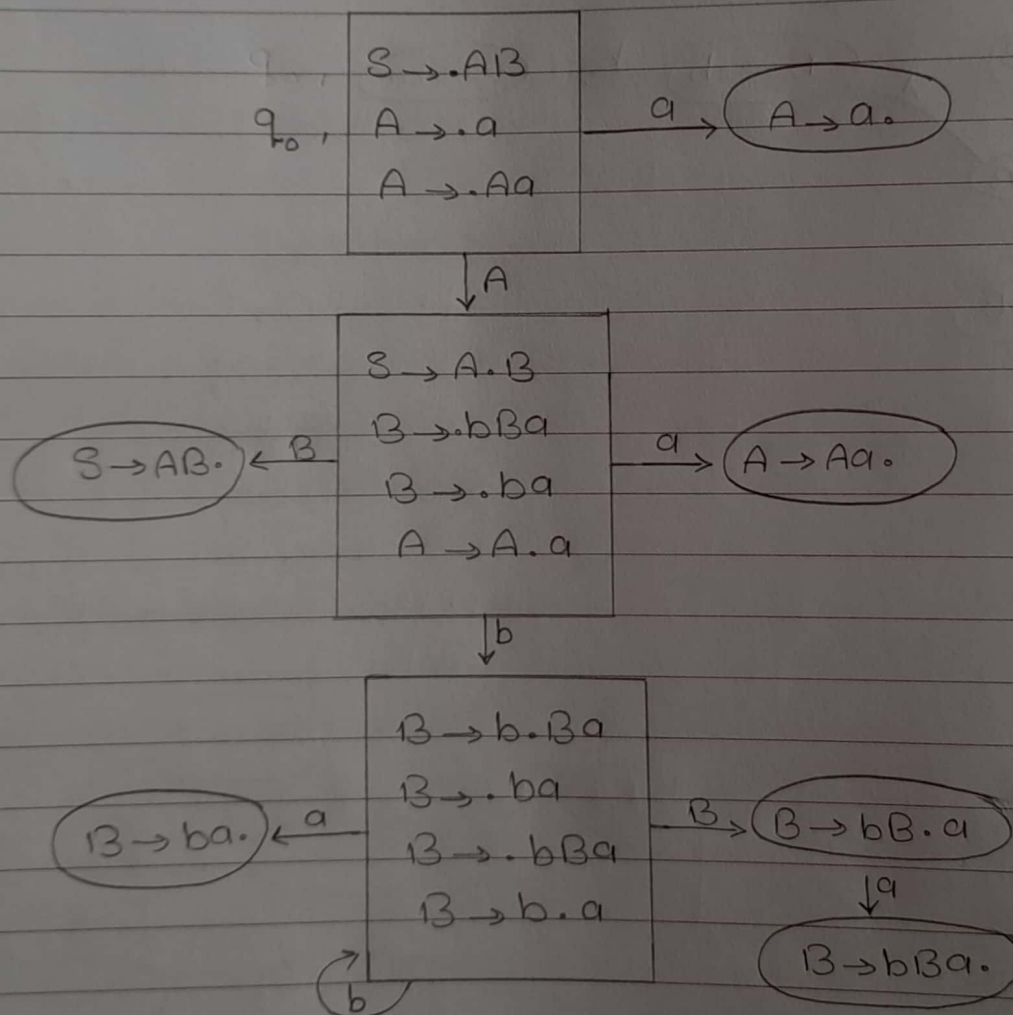
we work with code block not a single line.

Ex1:-

$S \rightarrow AB$

$A \rightarrow a / Aa$

$B \rightarrow bBa / ba$



Ex 2:

$S \rightarrow BAAb$

$A \rightarrow a$

$B \rightarrow b$

$\Rightarrow q_0, S \rightarrow \cdot BAAb$
 $B \rightarrow \cdot b$ $\xrightarrow{b} B \rightarrow b \cdot$

$\downarrow B$

$S \rightarrow B \cdot AAb$

$A \rightarrow \cdot$

$\downarrow A$

$S \rightarrow BA \cdot Ab$

$A \rightarrow \cdot$

$\downarrow A$

$S \rightarrow BAA \cdot b$

$\xrightarrow{b} S \rightarrow BAAb \cdot$

If we have 'bb' how to reach 'S'?

U

V

Computation

Action

a

bb

$q_0, S \rightarrow \cdot BAAb$
 $B \rightarrow \cdot b$

Shift

b

b

Reduce

B

b

$S \rightarrow B \cdot AAb$
 $A \rightarrow \cdot$

Reduce

BA

b

$S \rightarrow BA \cdot Ab$
 $A \rightarrow \cdot$

Reduce

BAA

b

Shift

BAAb

a

$S \rightarrow BAA \cdot b$

Reduce

S

$S \rightarrow BAAb \cdot$