## Kleene closure

## operation is perfomed on a single language Repetation

Say, L, or  $L^1 = \{a, abc, ba\}$ , on  $\Sigma = \{a,b,c\}$ 

 $L^3 = \{a, abc, ba\}. L^2$ 

. . . . .

But,  $L^0 = \{\epsilon\}$ 

Kleene closure of L,  $L^* = \{\epsilon, L^1, L^2, L^3, \ldots\}$ 

$$\Sigma = \{0,1\} \text{ at more}$$

THE CHE CLOSE

Say, L, or  $L^1 = \{a, abc, ba\}$ , on  $\Sigma = \{a,b,c\}$ 

$$L=\{a, abc, ba\} L=L(1)$$

$$=\{a, abc, ba\} L=L(1)$$

L= = \aaa, aabc, aba,
abca, abcaba,
baaba, baba,

Two time options are available

Say, L, or  $L^1 = \{a, abc, ba\}$ , on  $\Sigma = \{a,b,c\}$ a / abc / ba operation will be performed on one language **Closure= Repetation** Traverse through the loop only once All possible combinations