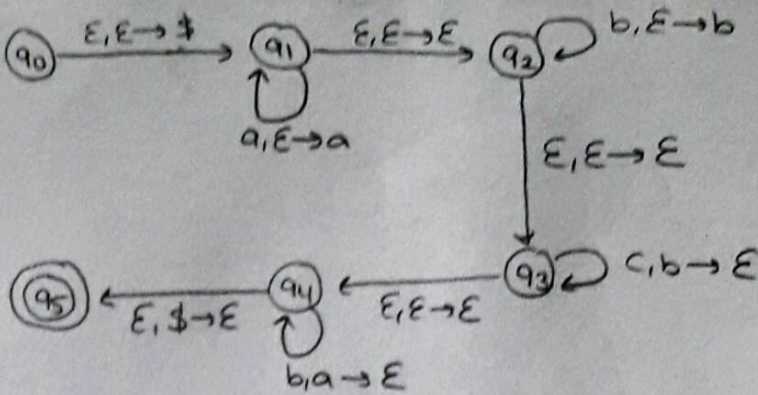


Question-4

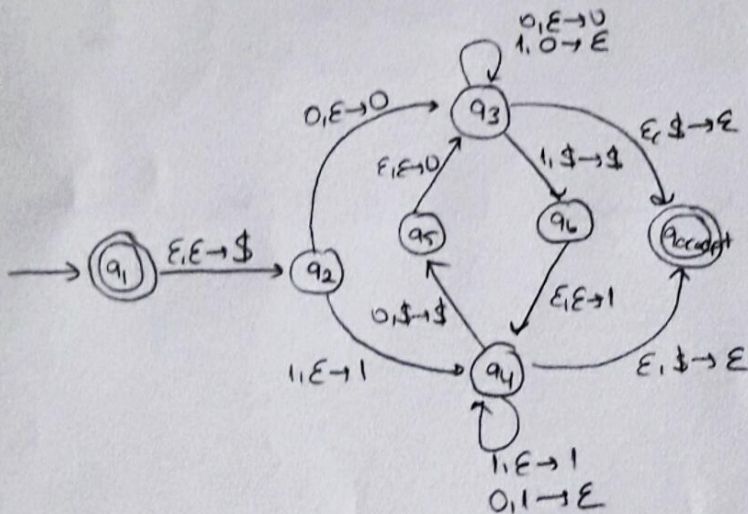
Give a PDA that generates the language $L = \{a^n b^m c^m b^n \mid n, m \geq 0\}$ over $\Sigma = \{a, b, c\}$

Solution:



Question-5

What is the language recognized by the following PDA?



Solution:

$\Sigma = \{0, 1\}$ made of strings that contains equal number's of 0's and 1's.

$q_3 \rightarrow$ more 0's than 1's arrived, Stack contains 0's.

$q_4 \rightarrow$ more 1's than 0's arrived, Stack contains 1's.