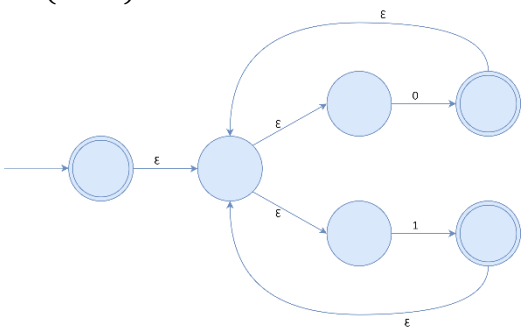
If

For $(0+1)^*$

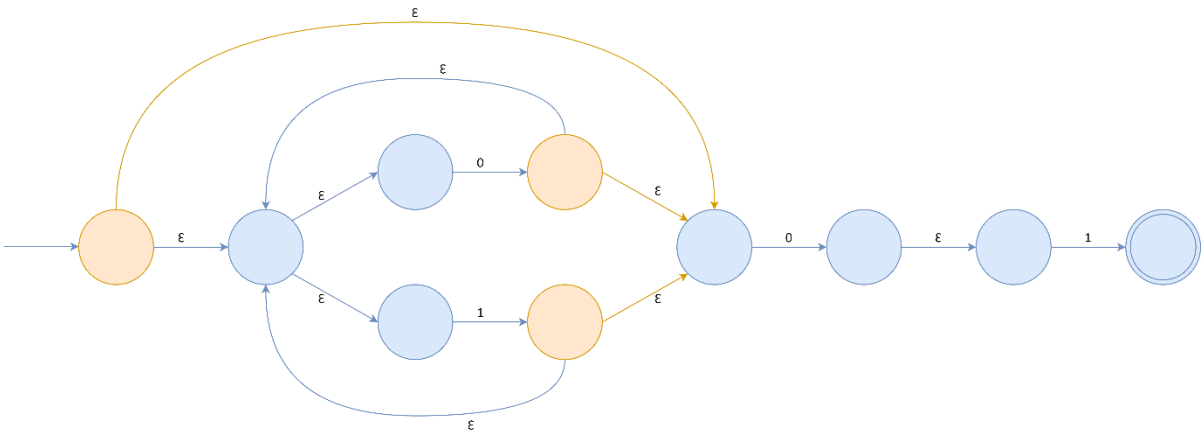


For 01

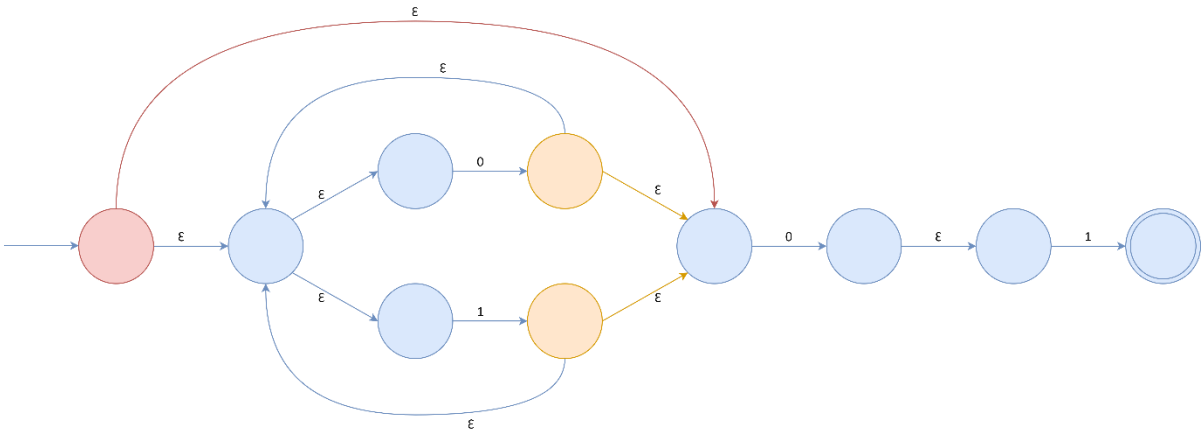
Then to create the diagram for $(0+1)^*01$, we need to:

1. Introduce an Ɛ-transition from each of the final states in the left part of the RE (i.e., $(0+1)^*$) to the start state in the right part of the RE (i.e., 01)
2. Turn all the final states in the left part of the RE (i.e., $(0+1)^*$) into non-final states

So, for $(0+1)^*01$ we would get:



A common mistake that was observed was that none of you drew a transition from the starting state of $(0+1)^*$ which was also a final state nor did you convert it to a non-final state. Some of you managed to convert this state into non-final. But the transition wasn't illustrated by anyone. The state in discussion along with the new Ɛ-transition from it is marked in red in the following figure.



N.B: The REs were used for illustration purposes. These exact REs were not from the question paper.