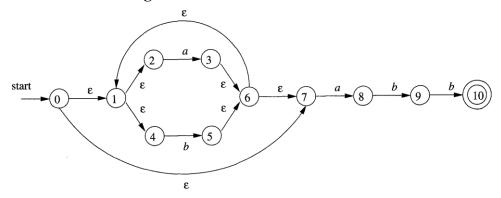
EIC0022 | THEORY OF COMPUTATION | 2018/2019 - 1st Semester

Preparation Activity PAo5 – REs

- 1. Write a regular expression representing the language consisting of the strings over $\{a,b,c\}$ with at least one substring aa and at least one substring bb;
- 2. Consider the following &-NFA:



- (a) Convert this E-NFA to a regular expression using the state elimination method.
- (b) Use the DFA resultant of the translation of this E-NFA (asked in PAo4) and show a regular expression obtained using the state elimination method.
- (c) Are the two regular expressions equivalent? Justify your answer.