**Marks 5+5+5.**

For the Regular Expression **(a+b)\*b**, apply the following transformations using the method studied in the class:

* 1. From RE to NFA.
  2. The resultant NFA from part (a) to DFA.
  3. Minimize the resultant DFA from part (b).

1. **[5+5+5 = 15pts]**For the Regular Expression **(a+b)\*aa**, apply the following transformations using the method studied in the class:
   1. From RE to NFA
   2. The resultant NFA from part (a) to DFA
   3. Minimize the resultant DFA from part (b)

Question. Marks 10

