

Q.1

Q. DFA for all string over $\{a, b\}$ such that fifth symbol from right is a .

1. Regular expression:

$$(a+b)^4 a (a+b)$$

2. Regular expression:

$$[aa(a+b)(a+b)a(a+b) + a(a+b) + a(a+b)(a+b) + a + (a+b)aa(a+b) + (a+b)a(a+b) + (a+b)(a+b)aa]$$