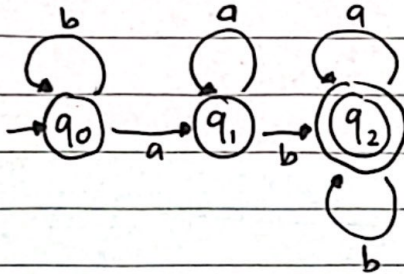


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a. Gambar diagram state DFA

b. Uji string

- ~~aaab~~

~~$\delta(q_0, a) = q_1$~~

~~$\delta(q_1, a) = q_1$~~

~~$\delta(q_1, b) = q_2$~~

- aab :

$\delta(q_0, a) = q_1$

$\delta(q_1, a) = q_1$

$\delta(q_1, b) = q_2 \rightarrow$ berhenti di final state.

- bbb :

$\delta(q_0, b) = q_0$

$\delta(q_0, b) = q_0$

$\delta(q_0, b) = q_0 \rightarrow$ Tidak berhenti di final state q_2

1.) Definisi formal

$M = (Q, \Sigma, \delta, q_0, F)$

$Q = \{q_0, q_1, q_2, q_3, q_4, q_5\}$

$\Sigma = \{a, b\}$

$q_0 = q_0$

$F = \{q_0, q_2, q_4\}$

$\delta =$	a	b	
q_0	q_1	q_5	$\Rightarrow \delta(q_0, a) = q_1$
q_1	q_5	q_2	$\delta(q_0, b) = q_5$
q_2	q_5	q_3	$\delta(q_1, a) = q_2$
q_3	q_4	q_5	$\delta(q_1, b) = q_2$
q_4	q_5	q_5	$\delta(q_2, a) = q_5$
q_5	q_5	q_5	$\delta(q_2, b) = q_3$
			$\delta(q_3, a) = q_4$
			$\delta(q_3, b) = q_5$
			$\delta(q_4, a) = q_5$
			$\delta(q_4, b) = q_5$
			$\delta(q_5, b) = q_5$
			$\delta(q_5, a) = q_5$

2.) Mengapa string abba diterima?

$$f^*(q_0, abba) = q_4$$

abba diterima mesin karena ada $f^*(q_0, abba) \in F$ dan $q_4 \in F$.