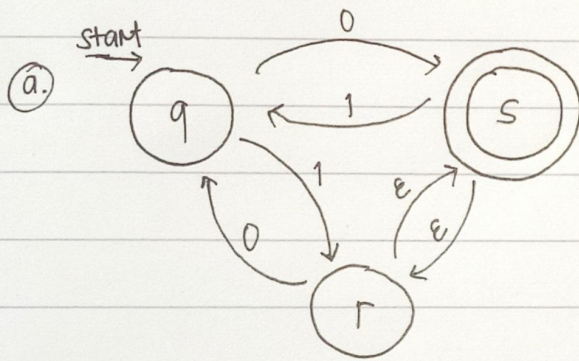


FERZA REYALDI 09021281924060

TEORI BAHASA DAN AUTOMATA

TUGAS - E-NFA.



b) $w = 101$.

$$- \hat{\delta}(q, \epsilon) = \text{ECLOSE}(q) = \{q\}$$

$$- \hat{\delta}(q, 1) = \delta(q, 1) = \{r\}$$

$$\therefore \hat{\delta}(q, 1) = \text{ECLOSE}(r) = \{r, s\}$$

$$- \hat{\delta}(q, 10) = \delta(r, 0) \cup \delta(s, 0) = \{q\} \cup \emptyset = \{q\}$$

$$\therefore \hat{\delta}(q, 10) = \text{ECLOSE}(q) = \{q\}$$

$$- \hat{\delta}(q, 101) = \delta(q, 1) = \{r\}$$

$$\therefore \hat{\delta}(q, 101) = \text{ECLOSE}(r) = \{r, s\}$$

$$\{r, s\} \cap \{s\} = \{s\} \quad (\text{word diterima}).$$

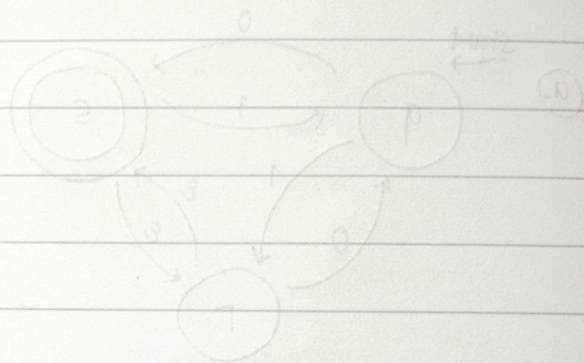
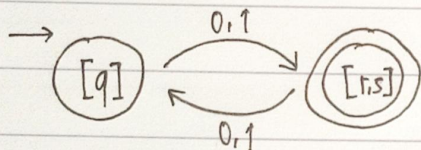
c) $\text{ECLOSE}(q) = \{q\}$

$$\text{ECLOSE}(r) = \{r, s\}$$

$$\text{ECLOSE}(s) = \{r, s\}$$

(d)

	0	1
$\rightarrow [q]$	$[r,s]$	$[r,s]$
$* [r,s]$	$[q]$	$[q]$

(d) $w = 101$

$$\{p\} = \text{closure}(p) = \{q, p\} \hat{=} -$$

$$\{r\} = \{r, p\} \hat{=} -$$

$$\{s, r\} = \text{closure}(r) = \{r, p\} \hat{=} -$$

$$\{p\} = \emptyset \cup \{p\} = \{q, r\} \hat{=} -$$

$$\{p\} = \text{closure}(p) = \{q, p\} \hat{=} -$$

$$\{r\} = \{r, p\} \hat{=} -$$

$$\{s, r\} = \text{closure}(r) = \{q, p\} \hat{=} -$$

$$\{s, r\} = \{s\} \cap \{s, r\}$$

$$\{p\} = \{p\} \hat{=} -$$

$$\{r\} = \{r\} \hat{=} -$$

$$\{s, r\} = \{s, r\} \hat{=} -$$