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NIM : 2206156
KELAS : TEKNIK INFORMATIKA - E

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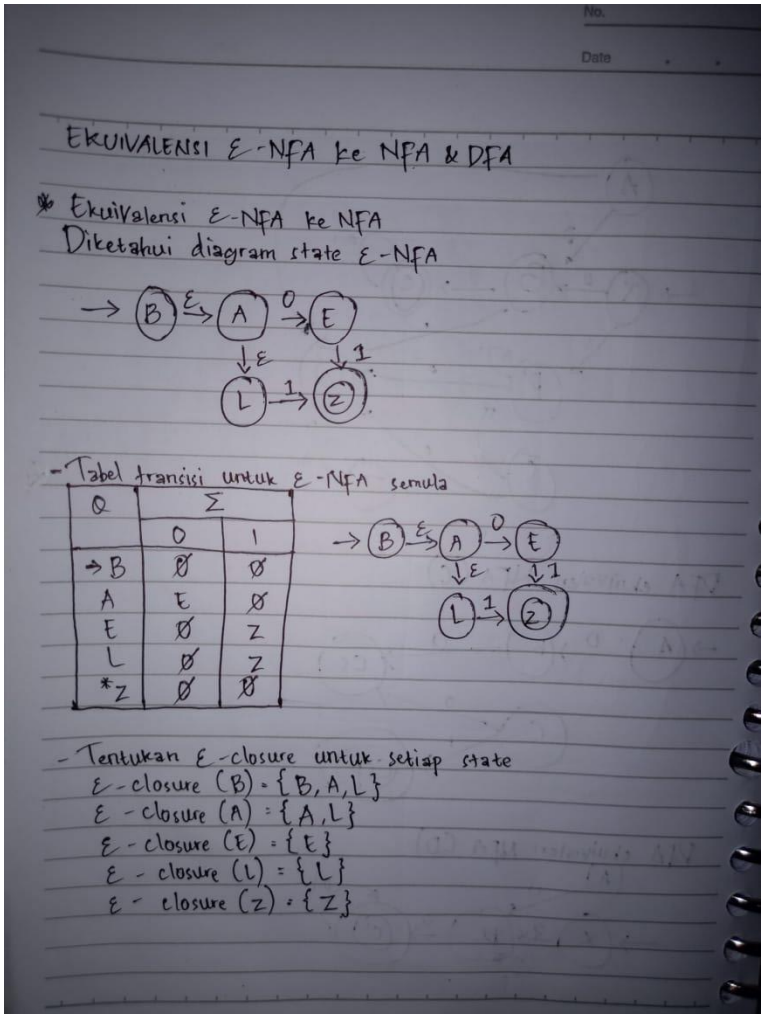
Carilah materi-materi dari berbagai sumber mengenai:

1. Buatlah satu bahasa reguler sesuai keinginan anda
2. Bagaimana proses ekuivalensi dari ε-NFA ke NFA, untuk bahasa reguler soal no 1
3. Bagaimana proses ekuivalensi dari ε-NFA ke DFA, untuk bahasa reguler soal no 1

Susun draft laporan hasil pembelajaran pada file word/ pdf dengan format
nama: **L6_KELAS_NIM**
Rekam laporan hasil pembelajaran, upload ke chanel YT, copas URL VIDEO, tambahkan ke File Laporan
Submit file laporan (**+ URL VIDEO**) ke LMS

Penyelesaian :



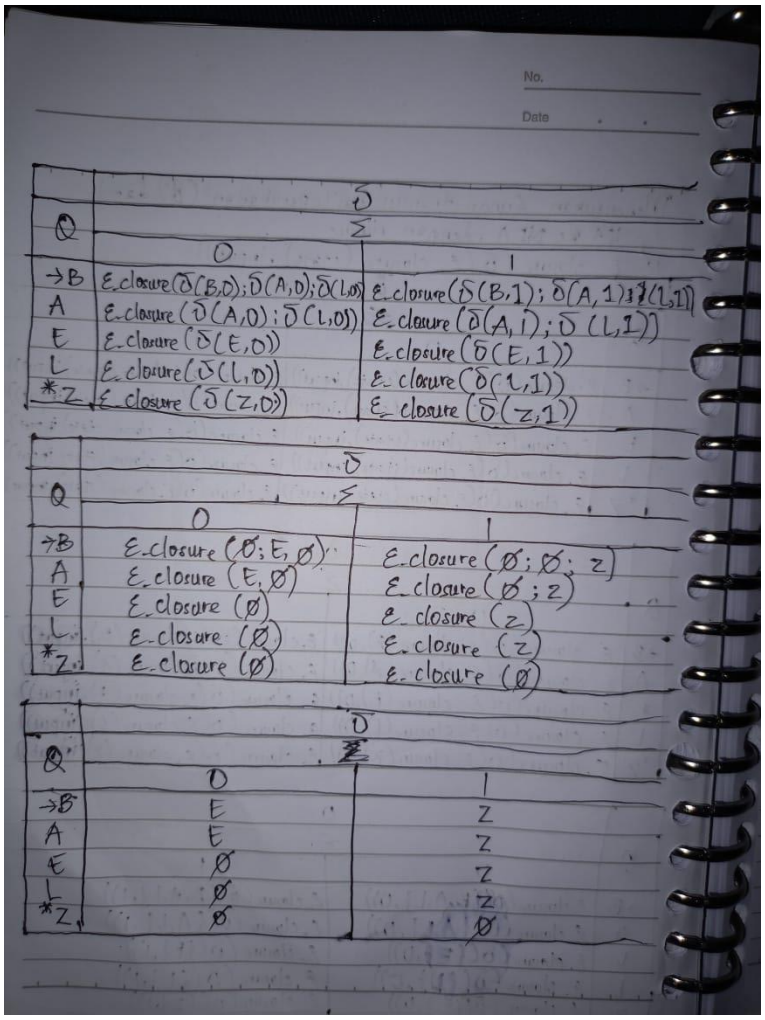
- Menentukan fungsi transisi hasil perubahan (δ') dari ε-NFA ke NFA, dengan rumus

$\delta' = \varepsilon\text{-closure}(\delta(\varepsilon\text{-closure}(state), input))$

	δ	
Q	Σ	
	0	1
→B	ε-closure(δ(ε-closure(state), input))	ε-closure(δ(ε-closure(state), input))
A	ε-closure(δ(ε-closure(state), input))	ε-closure(δ(ε-closure(state), input))
E	ε-closure(δ(ε-closure(state), input))	ε-closure(δ(ε-closure(state), input))
L	ε-closure(δ(ε-closure(state), input))	ε-closure(δ(ε-closure(state), input))
*Z	ε-closure(δ(ε-closure(state), input))	ε-closure(δ(ε-closure(state), input))

	δ	
Q	Σ	
	0	1
→B	ε-closure(δ(ε-closure(B), 0))	ε-closure(δ(ε-closure(B), 1))
A	ε-closure(δ(ε-closure(A), 0))	ε-closure(δ(ε-closure(A), 1))
E	ε-closure(δ(ε-closure(E), 0))	ε-closure(δ(ε-closure(E), 1))
L	ε-closure(δ(ε-closure(L), 0))	ε-closure(δ(ε-closure(L), 1))
*Z	ε-closure(δ(ε-closure(Z), 0))	ε-closure(δ(ε-closure(Z), 1))

	δ	
Q	Σ	
	0	1
→B	ε-closure(δ({B,A,L}, 0))	ε-closure(δ({B,A,L}, 1))
A	ε-closure(δ({A,L}, 0))	ε-closure(δ({A,L}, 1))
E	ε-closure(δ({E}, 0))	ε-closure(δ({E}, 1))
L	ε-closure(δ({L}, 0))	ε-closure(δ({L}, 1))
Z	ε-closure(δ({Z}, 0))	ε-closure(δ({Z}, 1))



No.

Date

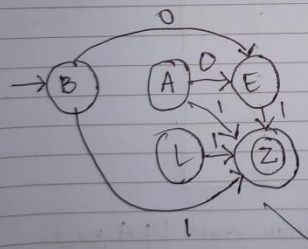
Q	δ: Σ = 0	δ: Σ = 1
→B	ε-closure(δ̄(B,0); δ̄(A,0); δ̄(L,0))	ε-closure(δ̄(B,1); δ̄(A,1); δ̄(L,1))
A	ε-closure(δ̄(A,0); δ̄(L,0))	ε-closure(δ̄(A,1); δ̄(L,1))
E	ε-closure(δ̄(E,0))	ε-closure(δ̄(E,1))
L	ε-closure(δ̄(L,0))	ε-closure(δ̄(L,1))
*Z	ε-closure(δ̄(Z,0))	ε-closure(δ̄(Z,1))

Q	δ: Σ = 0	δ: Σ = 1
→B	ε-closure(∅; E; ∅)	ε-closure(∅; ∅; Z)
A	ε-closure(E, ∅)	ε-closure(∅; Z)
E	ε-closure(∅)	ε-closure(Z)
L	ε-closure(∅)	ε-closure(Z)
*Z	ε-closure(∅)	ε-closure(∅)

Q	δ: Σ = 0	δ: Σ = 1
→B	E	Z
A	E	Z
E	∅	Z
L	∅	Z
*Z	∅	∅

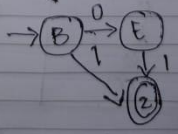
- Menentukan state-state akhir

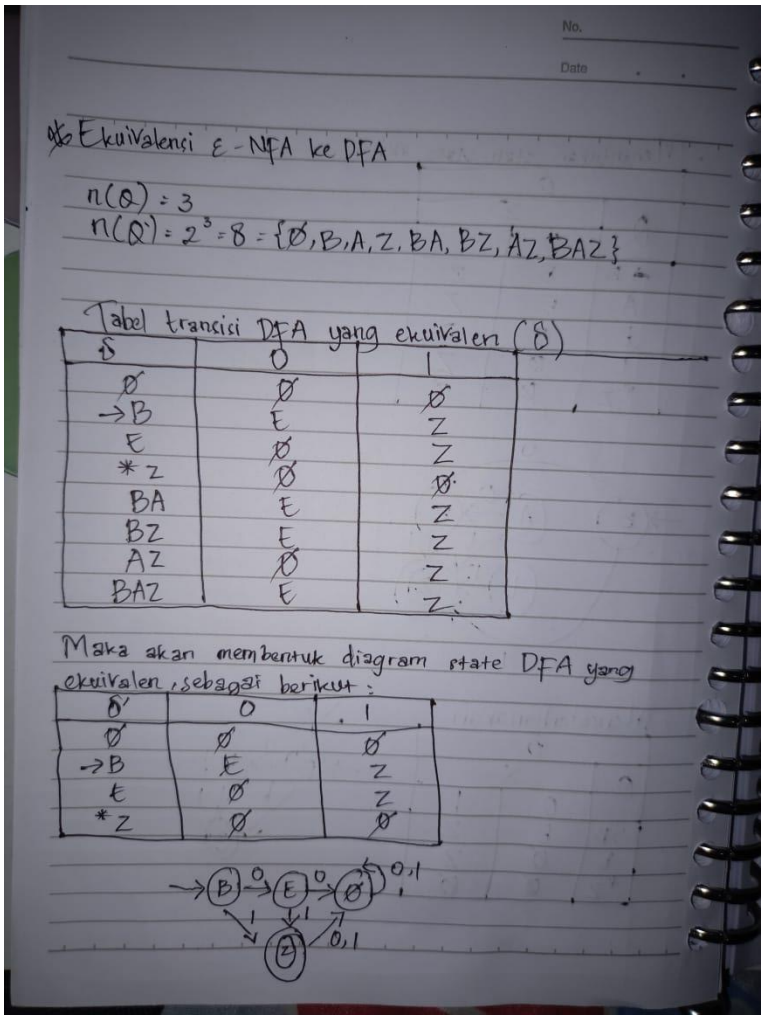
δ	Σ	
Q	0	1
→ B	E	Z
A	E	Z
E	Ø	Z
L	Ø	Z
*Z	Ø	Ø



- Menyederhanakan

δ	Σ	
Q	0	1
→B	E	Z
E	Ø	Z
*Z	Ø	Ø





Link Video :

https://youtu.be/ps_GlrtZ5fQ?si=lGAaZWn_18GG8loe