Compilers Assignment Broblem Rescription: 1. De're required to hald a Command line toul
2. It should convert a regular expression into NFA Using shom pson's algerishm 3. the Input should be regular expression 4. the expression may be invalid, so we need to check it 5. We are given a table of valid regular expression syntax 6. the Input literals are alphaneumenic only & this is gouverteed, so we do not have to check anything else. 7. De're required to output a ssoll file representing the 8. this FSM represents the states & the transitions in the NFA, the famat is given. 9. the FOON File should contain the Leftwing 1. "starting stage": 2. Each state: &

e.1: "is Terminating"

2.2-N- "Kransition": "New-State"}

to we should also output an image ConTaining NFA, but Je Can use any graphical library in Pathon.

this is Part1

1. Now we have NFA
2. We want to convert it to a DFA
1. Then we should minimize the generaled PFA
4. Our Input will be the NFA JSD File.
5. Our out put should be a \$50N file too, Containing the
Minimized DFA.
6. Also we're asked to draw the Hinimized OFA

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18 office of ext. In more Continuous City

Parsing & validating the Input

Building NFA Algorithms.

Building DFA From NFA Algorithm: