1. Task 1.1
    a. ^a*b*c*d
    b. ^(0|[1-9]\d?\d?(,\d\d\d)*)
    c. ^[a-z]+(\s?[a-z])*
2. Task 1.2
    a. a.a* + b.b*
    b. (a + b)*a.b.b
3. Task 1.3
    a. e−closure(0) = {0, 1, 9} since we can reach those without input
    b. e-closure(3) = {3, 4, 5} since we can reach those from state 3 with no input
    c. e-closure(2) = {2, 3, 4, 6} since we can reach state 2 or state 4 from 2 without taking input and then we can also go to state 3,4,6 from state 3
4. Task 1.4
    a.

	a	b
A	B	C
B	D	B
C	E	F
D	D	B
E	G	F
F	E	F
G	G	F

    b. A: {0,1,9}
    B: {10}
    C: {2,3,4,6}
    D: {10,11}
    E: {2,3,4,6,7}
    F: {2,3,4,5,6}
    G: {2,3,4,6,7,8}
    D,F,G are final states because they have the final states of DFA
5. Task 1.5
    a. It does not have an error state because the DFA accepts all strings that have a and b. However, the e string will not be accepted.
6. Task 4.1
    a. A couple days, I struggled and needed help
7. Task 4.2
    a. Pradyo helped me, and I used the library functions link on page 1 of the pdf