Task 1

RE Rules:

```
1. Number := [0-9]+ (\. [0-9]+)?
```

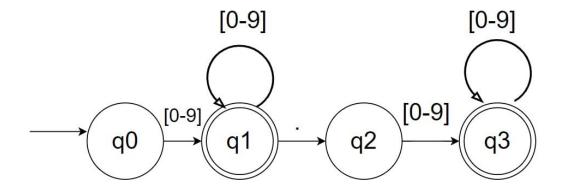
3. Reserved_Keywords:= int | float | string | read | write | repeat | until | if | elseif | else | then | return | endl | end | main

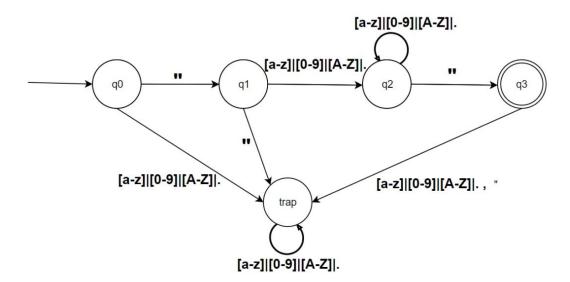
8. Arithmatic_Operator := +|-|*|/

19. **Boolean_Operator** := **&&** | ||

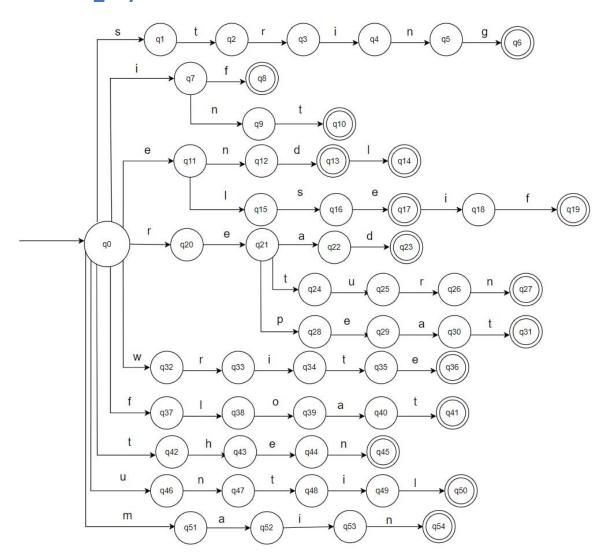
DFA:

1. Number

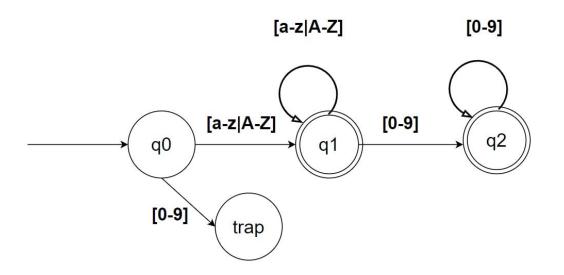




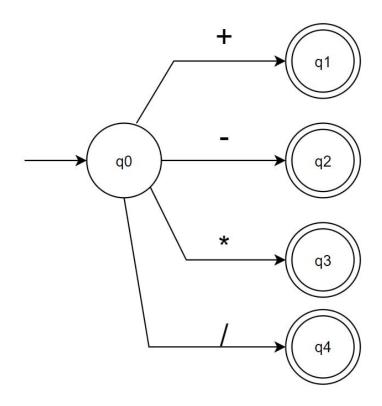
3. Reserved_Keywords

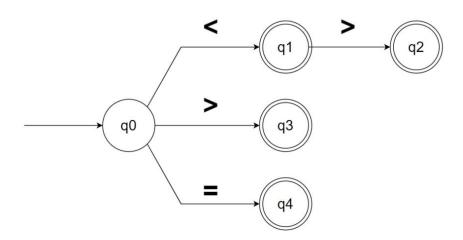


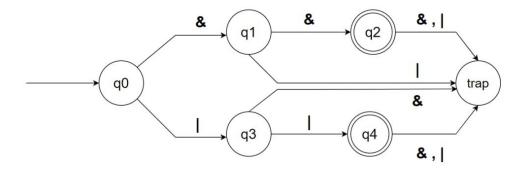
5. Identifiers

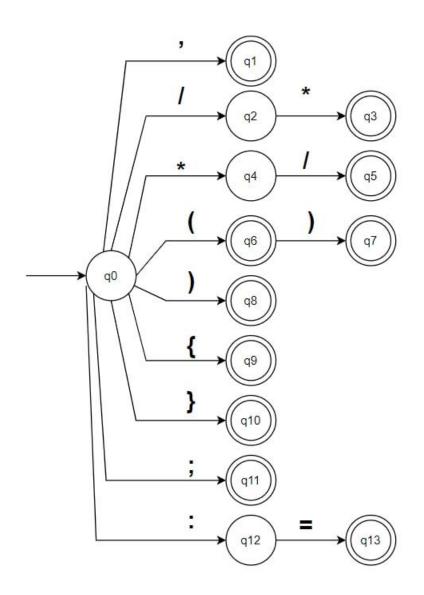


8. Arithmatic_Operator



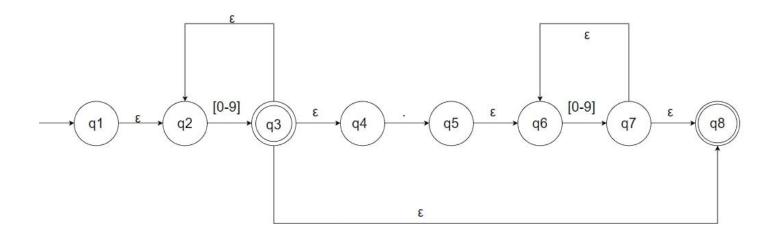


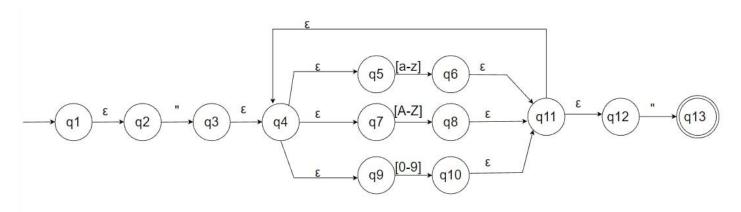




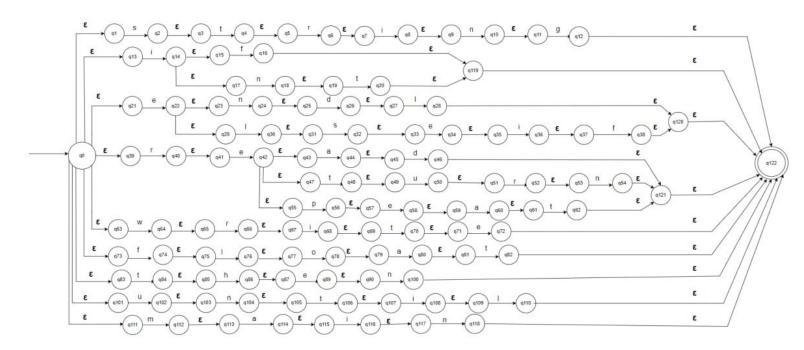
NFA Thompson's Construction:

1. Number

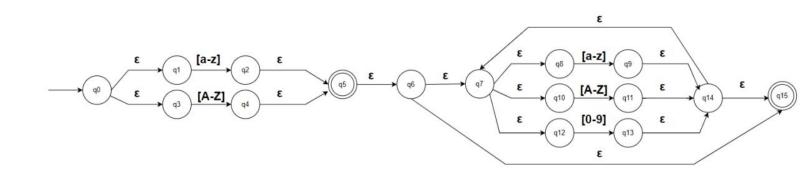




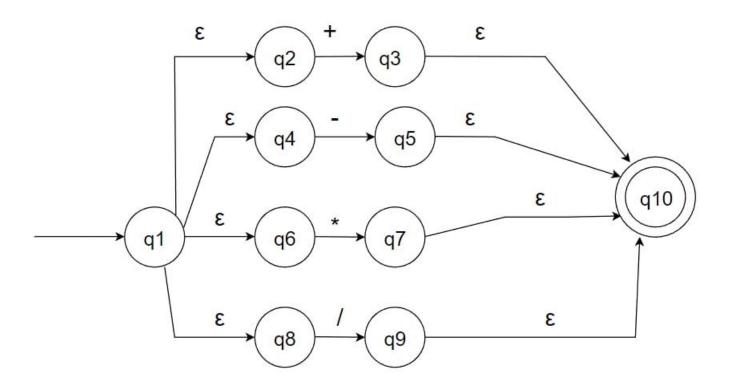
3. Reserved_Keywords

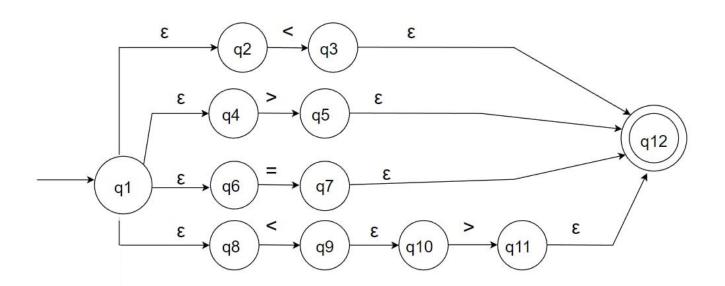


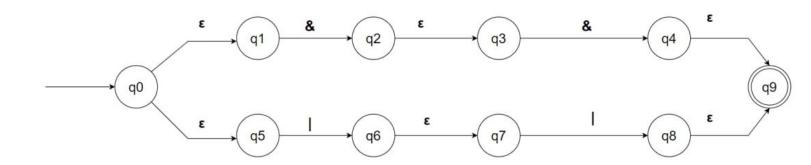
5. Identifiers

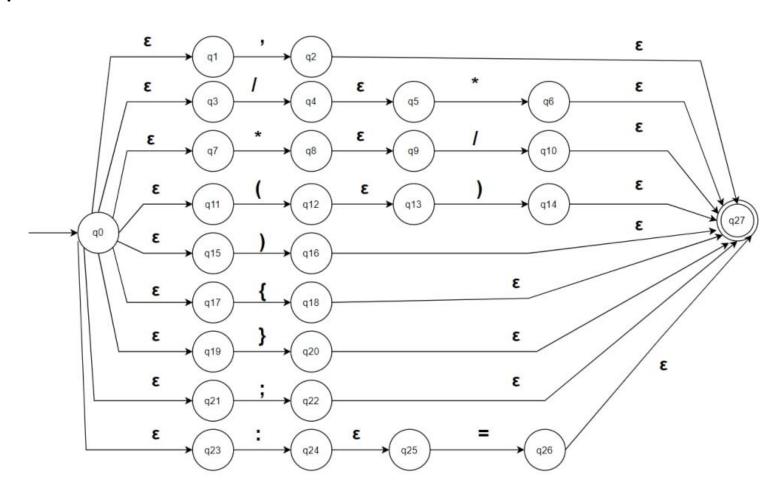


8. Arithmatic_Operator



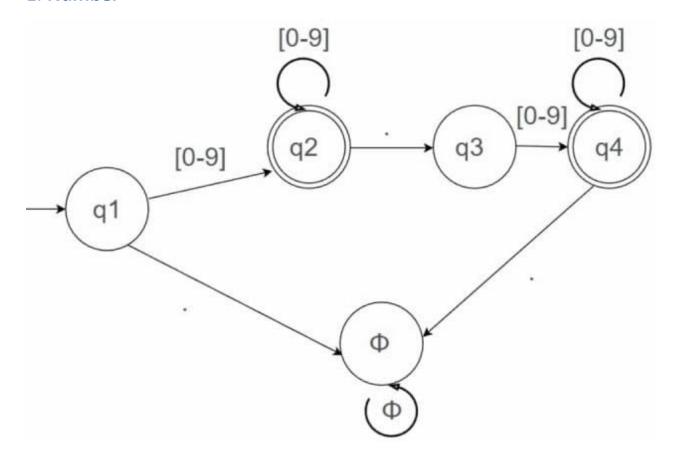


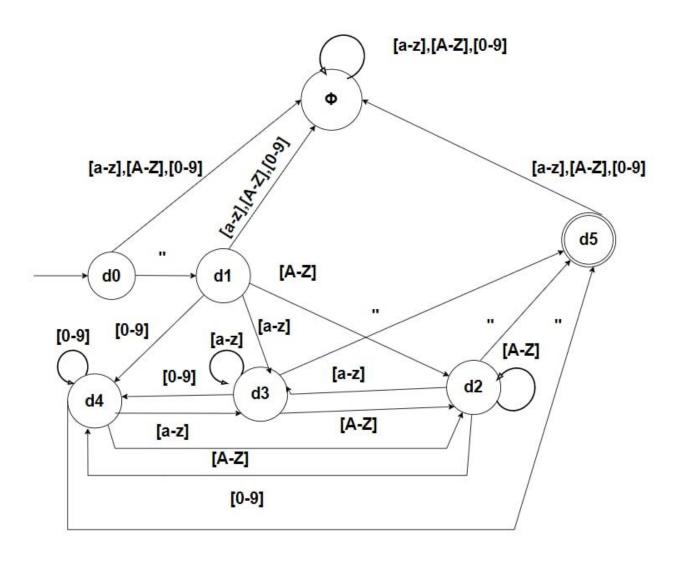




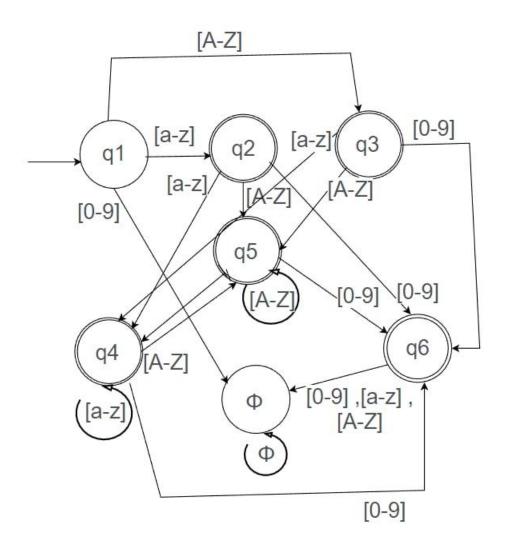
NFA Subset Construction:

1. Number

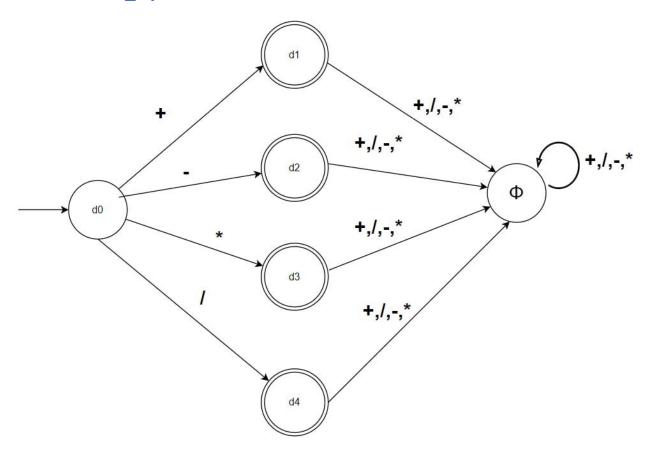


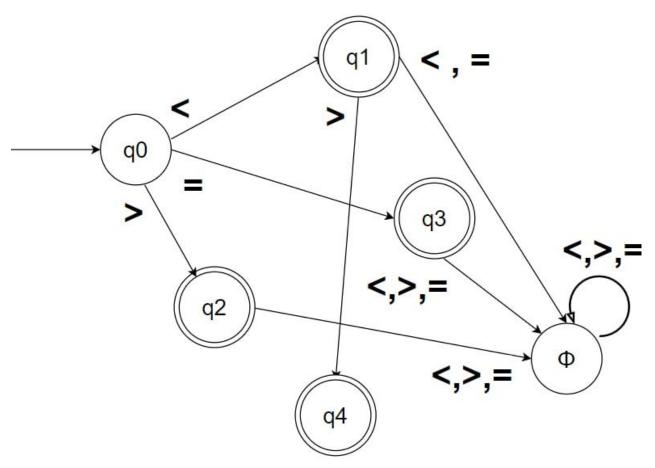


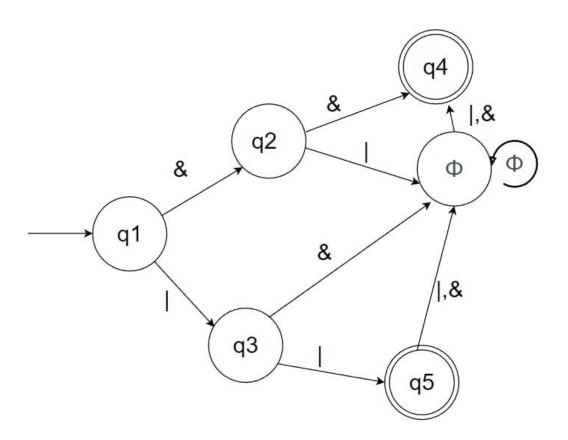
5. Identifiers

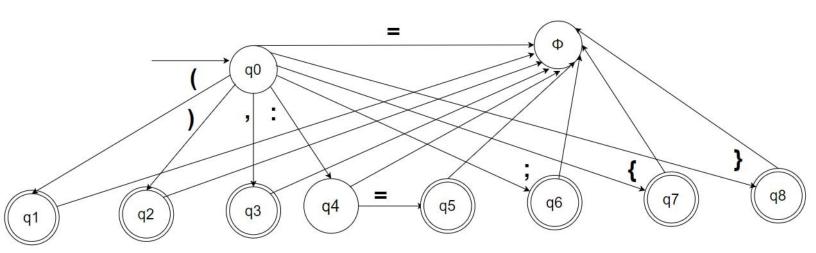


8. Arithmatic_Operator



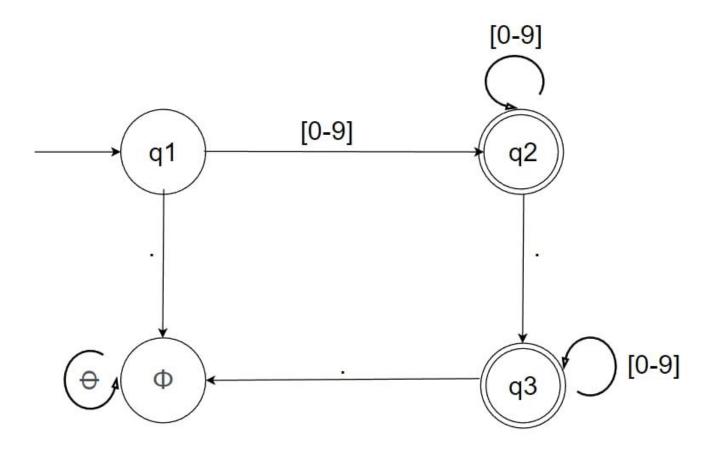


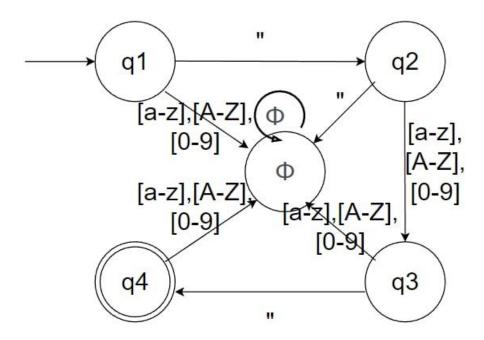




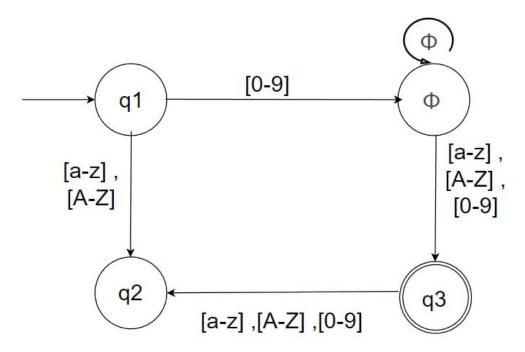
DFA Minimizing:

1. Number





5. Identifiers



8. Arithmatic_Operator

