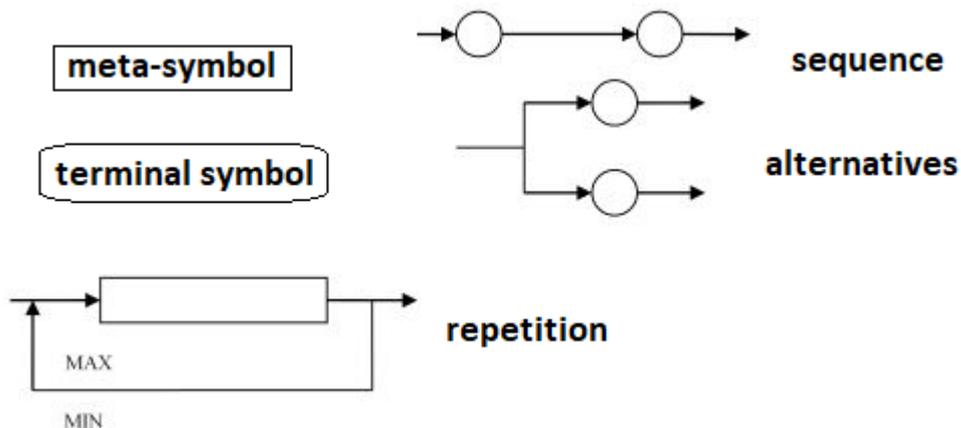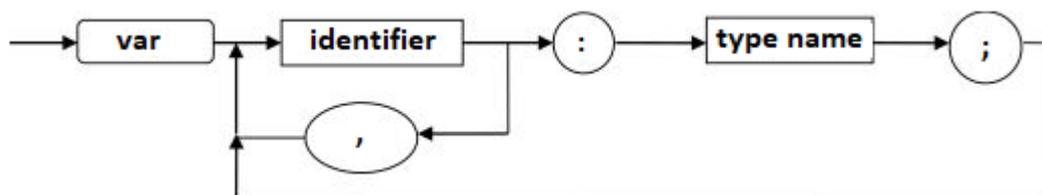# Syntax Graphs

Syntactic rules can also be modeled using graphs, for example in the following way:

The idea is to represent all possibilities of the BNF formula in some graphical way.

1. Example: Syntax Graph for Variable Declarations in the PASCAL Language

Even if someone is unfamiliar with the PASCAL language, they would be able to declare syntactically correct variables using the graph:

$$ \text{var age, weekdays : integer;} $$ $$ \text{var taxrate, netIncome : real;} $$ $$ \text{var choice, isready : boolean;} $$ $$ \text{initials, grade : char;} $$ $$ \text{name, surname : string;} $$

This shows how graphical representations can help in understanding and constructing syntactically correct structures in programming languages.