**Parse Tree:**

The Hierarchical Syntactic Structure of Sentences of the Languages is called **Parse Tree**

\[ A = B \ast (A + C) \]

---

Every internal node of a parse tree is labeled with non-terminal symbols. Every leaf with terminal symbols.
Ambiguity

A grammar that generates a sentential form of which there are two or more distinct parse trees is said to be ambiguous.

\[
\begin{align*}
\text{assign} & \rightarrow \text{id} = \text{expr} \\
\text{id} & \rightarrow A | B | C \\
\text{expr} & \rightarrow \text{expr} + \text{expr} \\
& \quad \mid \text{expr} \ast \text{expr} \\
& \quad \mid (\text{expr}) \\
& \quad \mid \text{id} \\
\end{align*}
\]

A = B + C * A  it has two distinct parse tree

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