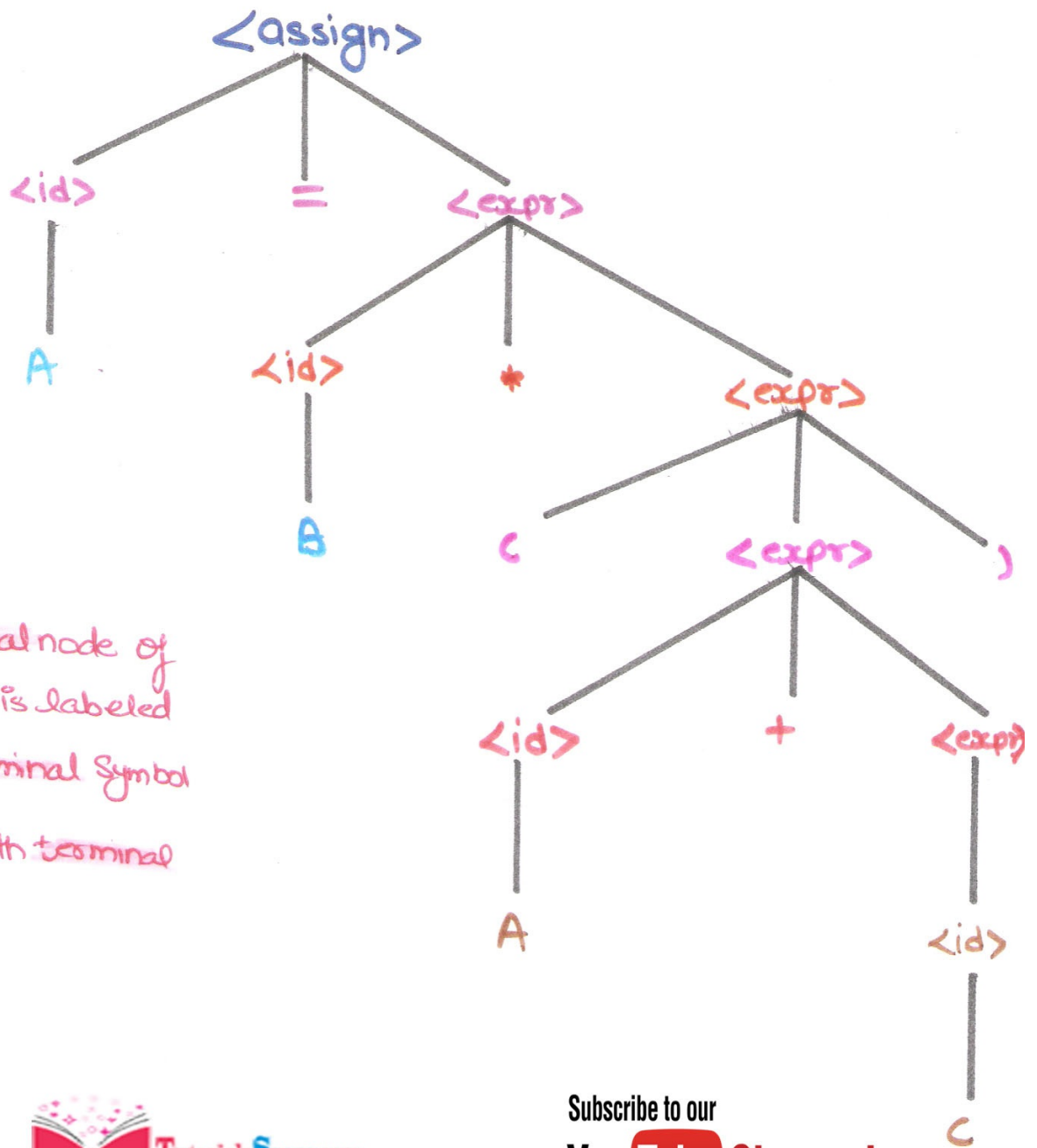


Parse Tree:-

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

$$A = B * (A + C)$$



Every internal node of a parse tree is labeled with non-terminal symbol every leaf with terminal



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Ambiguity

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

$\langle \text{assign} \rangle \rightarrow \langle \text{id} \rangle = \langle \text{expr} \rangle$
 $\langle \text{id} \rangle \rightarrow A | B | C$
 $\langle \text{expr} \rangle \rightarrow \langle \text{expr} \rangle + \langle \text{expr} \rangle$
 $\quad | \langle \text{expr} \rangle * \langle \text{expr} \rangle$
 $\quad | \langle \text{expr} \rangle$
 $\quad | \langle \text{id} \rangle$

An Ambiguous Grammar.

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$A = B + C * A$ it has two distinct parse trees

