

Rule :

- ① $\langle \text{Program} \rangle :: = \text{begin } \langle \text{stmt_list} \rangle \text{ end}$
- ② $\langle \text{stmt_list} \rangle :: = \langle \text{stmt} \rangle \mid \langle \text{stmt} \rangle ; \langle \text{stmt_list} \rangle$
- ③ $\langle \text{stmt} \rangle :: = \langle \text{var} \rangle := \langle \text{expression} \rangle$
- ④ $\langle \text{var} \rangle :: = A \mid B \mid C$
- ⑤ $\langle \text{expression} \rangle :: = \langle \text{var} \rangle + \langle \text{var} \rangle \mid \langle \text{var} \rangle - \langle \text{var} \rangle \mid \langle \text{var} \rangle$

Symbol awal : $\langle \text{program} \rangle$

- $\langle \text{program} \rangle \rightarrow \text{begin } \langle \text{stmt_list} \rangle \text{ end (rule 1)}$
- $\rightarrow \text{begin } \langle \text{stmt} \rangle ; \langle \text{stmt_list} \rangle \text{ end (rule 2)}$
 - $\rightarrow \text{begin } \langle \text{var} \rangle := \langle \text{expression} \rangle ; \langle \text{stmt_list} \rangle \text{ end (rule 3)}$
 - $\rightarrow \text{begin } A := \langle \text{expression} \rangle ; \langle \text{stmt_list} \rangle \text{ end (rule 4)}$
 - $\rightarrow \text{begin } A := \langle \text{var} \rangle + \langle \text{var} \rangle ; \langle \text{stmt_list} \rangle \text{ end (rule 5)}$
 - $\rightarrow \text{begin } A := B + \langle \text{var} \rangle ; \langle \text{stmt_list} \rangle \text{ end (rule 4)}$
 - $\rightarrow \text{begin } A := B + C ; \langle \text{stmt_list} \rangle \text{ end (rule 4)}$
 - $\rightarrow \text{begin } A := B + C ; \langle \text{stmt} \rangle \text{ end (rule 2)}$
 - $\rightarrow \text{begin } A := B + C ; \langle \text{var} \rangle := \langle \text{expression} \rangle \text{ end (rule 3)}$
 - $\rightarrow \text{begin } A := B + C ; \langle \text{var} \rangle := \langle \text{var} \rangle \text{ end (rule 5)}$
 - $\rightarrow \text{begin } A := B + C ; B := \langle \text{var} \rangle \text{ end (rule 4)}$
 - $\rightarrow \text{begin } A := B + C ; B := C \text{ end (rule 4)}$