# EBNF Grammar for TINY:

*program→ stmt-sequence*

*stmt-sequence → statement {; statement* }

*statement→ if- stmt* | *repeat-stmt* | *assign-stmt* | *read-stmt* | *write-stmt*

*if -stmt →* **if** *exp***then** *stmt-sequence [***else** *stmt-sequence]* **end**

*repeat -stmt →* **repeat** *stmt-sequence* **until** *exp*

*assign -stmt →* ***identifier* :=** *exp*

*read -stmt →* **read *identifier***

*write -stmt →* **write** *exp*

*exp → simple-exp comparison-op simple-exp* | *simple-exp*

*comparison-op → <* | *=*

*simple-exp → term {addop term}*

*addop → +* | *-*

*term → factor {mulop factor*}

*mulop → \**  | */*

*factor →* ***(****exp****)***| ***number*** | ***identifier***

-Terminals are **bold**

-Non-terminals are normal