Types of Assembler:

① Single Pass. X

② Two Pass.

Pass1: - Reads the assembly lang. program one line at a time
- Ignores anything not required like comments
- Allocates memory address for the code lines
- Checks the op-code in the instruction set.
- Add the label to **Symbol table**; when found.
- Places the label address in the **Symbol table**.
- All the macros' code replaces the macro calls.

Pass2: . Reads the assembly lang. program one line at a time.
- Generates the **Object code**; including op-code & operand from the symbol table generated in pass-1.
- **Saves & executes** the program.