

CHAPTER : 01

"BASIC CONCEPTS"

Compiler } High-level
Interpreter }

Assembler } Low-level. lang
translator

The Assembler used on the behalf of Microsoft is called MASM (Microsoft Macro Assembler). Some other well-known assembler under MS windows include TASM (Turbo Assembler), NASM (Netwide Assembler) -

Two most popular linux-based assembler are GAS (GNU Assembler) and NASM. NASM's syntax is most similar to that of MASM.

Assembly language is the oldest PL.

closest resembles to native machine language. require you to understand computer's architecture and operating system.

(1) NOTE

.exe files, Application files or Directly executable files
In LINUX, we cannot execute it directly. If you want to work on MASM and user of LINUX, then you have to install layer on LINUX called VINE

MASM (.exe) $\xrightarrow{\text{on}}$ LINUX
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Before this, install VINE package

(2)

If you need to be a C, C++ developer, you need to understand memory, address and instructions work at a low level.