

Keywords

Compiler, Interpreter, Assembler, Source Code, Object Code, Executable Code, Debug, Translator, IDE

Translators and Facilities of Languages

TASK - Define the keywords.

Overview



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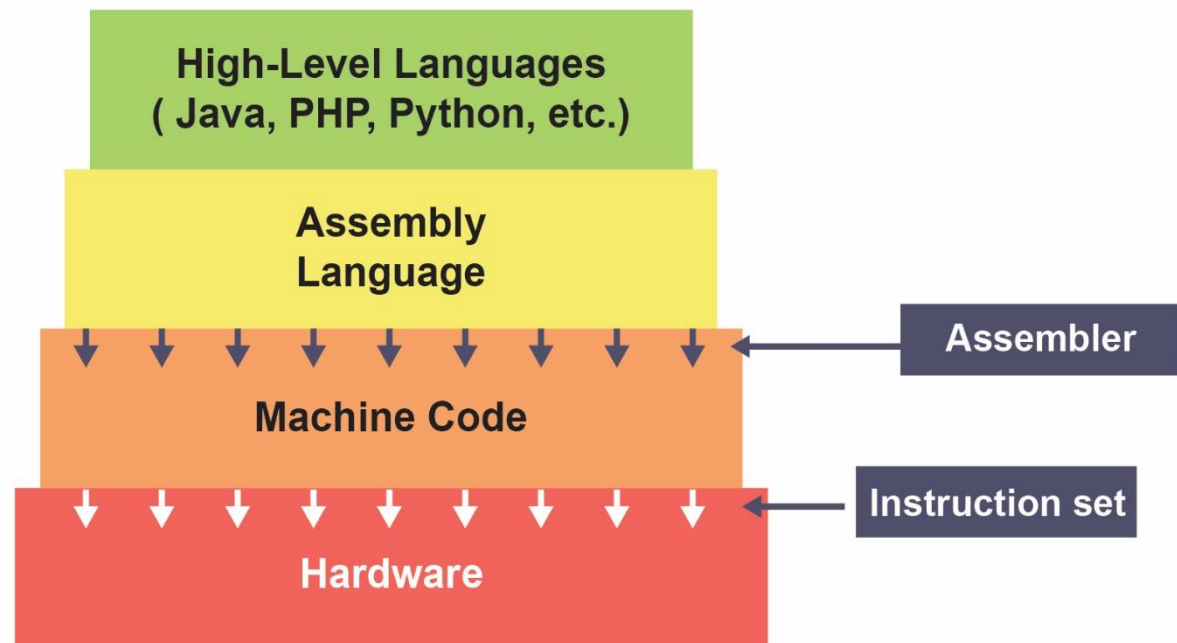
Objectives

BEGINNER:
describe how an
Assembler works.

ADVANCED:
Describe the
differences in
operation
between a
Compiler and
Interpreter.

EXPERT:
Describe the
common tools
and facilities in an
Integrated
Development
Environment
(IDE)

Language Translators are used to translate a language into a form that the will be able to directly execute.
Assemblers are used for 2nd Generation.
Compilers/Interpreters are used for 3rd Generation.



Task



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Explain the terms assemblers, compilers, interpreters and IDE.

ASSEMBLERS

Translate Assembly Language code into Machine Code.

Used for Device Drivers.

Used when fast execution is required or limited memory/file size.

Difficult to write in (easier than Machine code).

COMPILERS

Translate entire source code all in one go into Machine Code

Optimise code.

Used at the end of development (ready for shipping).

Error Reports created along with Object Code.



Task



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INTERPRETERS

Translate and execute source code

Line by Line, Statement by Statement

Source code is checked for syntax – if correct, code is executed. If incorrect interpreting is stopped.

Used for development (aide debugging)

IDE (Integrated Development Environment)

Editor (for writing the code)

Error Diagnostics (such as de-bug facilities)

Run-Time Environment

Translators

