Create.

↓ editor

text file.

↓ compiler

assembly language. { data
                     instruction.

↓ Assembler

Text, name, (no memory)] object
(machine language *   file.
     01111...001

Linker. (e.g. fred → collect from
         substring.   library)
↓ gather.
  like all files

Executable file.

↓ Loader. → e.g. fred, i → are allocated
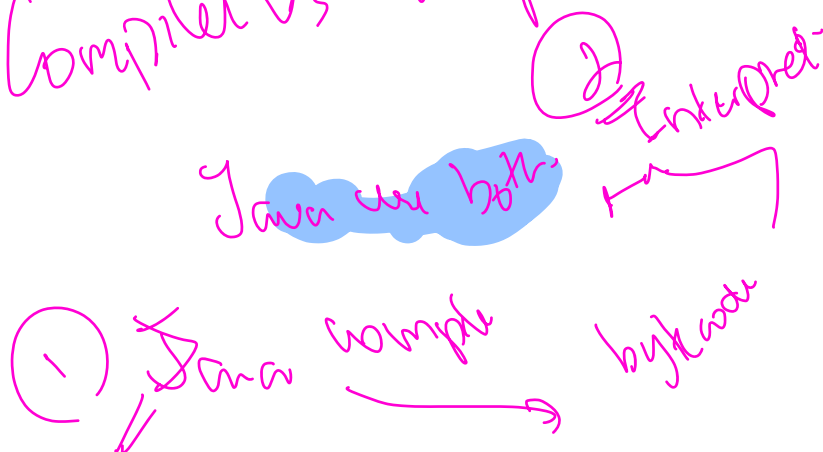   load on memory   on memory.

Run.

↑ Optimzation → faster

→ more space.

loop invariant move!!

✓. In past → run all sequence by human.

now g not neccessary → hide the sequences.

✓ Compiler vs Interpreter.

② Interpret

Java use both.

① Java comple → bytecode

VJM

JAVA worte
one → use
anywhere.

Virtual machine

with JVM.

Microsoft.

C#   VB F#

oNet   *   VM.