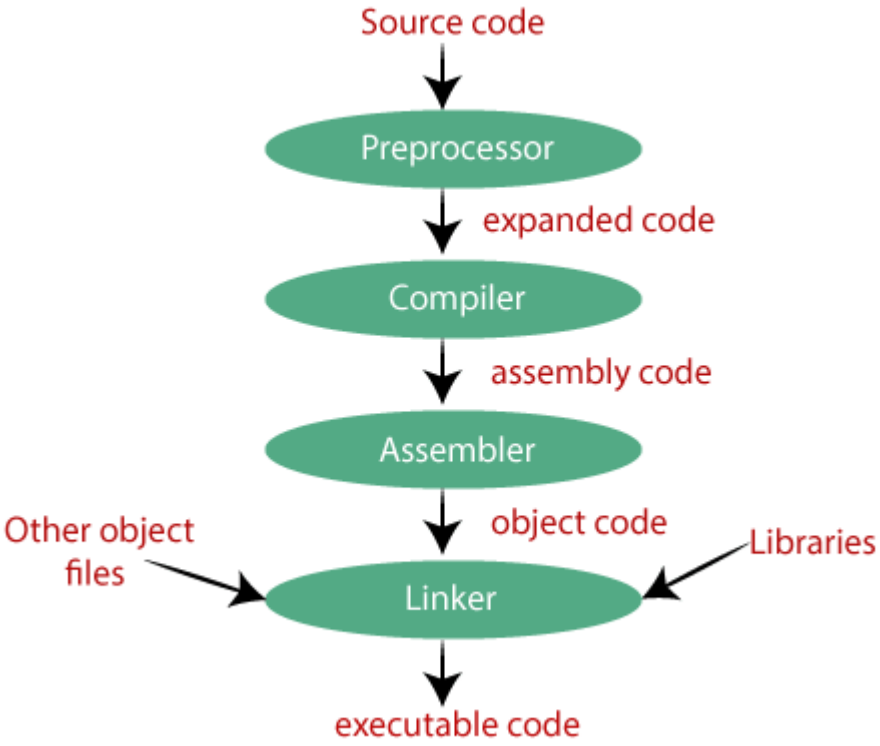


```
gcc -o HelloWorld HelloWorld.c
gcc -E HelloWorld.c > HelloWorld.i
gcc -S -masm=intel HelloWorld.i
as -o HelloWorld.o HelloWorld.s
objdump -M intel -d HelloWorld.o > HelloWorld.dump
gcc -c -o HelloWorld.o HelloWorld.c
```

Command	Phase	Description
`gcc -o HelloWorld HelloWorld.c`	All phases together	This command compiles and links the C file into an executable in one go.
`gcc -E HelloWorld.c > HelloWorld.i`	Preprocessing	The C preprocessor expands macros, includes headers, and outputs pure C code.
`gcc -S -masm=intel HelloWorld.i`	Compilation (to Assembly)	Converts preprocessed C code into Intel-style assembly.
`as -o HelloWorld.o HelloWorld.s`	Assembly	Assembles the assembly code into machine code (object file).
`objdump -M intel -d HelloWorld.o > HelloWorld.dump`	Disassembly (for analysis)	Not a compiler phase—used to inspect the object code.
`gcc -c -o HelloWorld.o HelloWorld.c`	Compiling only (no linking)	Translates C to an object file without producing an executable.