

```
.cstring
LC0:
.ascii "Hello\0"
.text
```

Assembly Code

```
.globl _main
_main:
    pushl    %ebp
    movl %esp, %ebp
    pushl    %ebx
    subl $20, %esp
    call ____i686.get_pc_thunk.bx
```

```
"L000001$pb":
    leal LC0-"L000001$pb"(%ebx), %eax
    movl %eax, (%esp)
    call L_printf$stub
    addl $20, %esp
    popl %ebx
    popl %ebp
    ret
```

Symbolic names for the machine code instructions

Assembler converts Assembly Code to Machine Code

Assembler

Only the machine code can be executed by the computer

```
.... 0111 0111 0010 0000 0000 0110 0011
0100 1110 0101 1111 0100 0001 0101 1000
0110 0111 0111 0010 0000 0000 0111 0110
0101 1111 0101 1111 0110 1001 0101 ....
```

Machine Code

