

Programming the 8051

Assembly Language Programming

Topics

- Lines of Code
- 8051 Instruction Syntax
 - Labels
 - Instruction
 - Comments

Lines of code

```
org 0000h    ; start code at 0000h
```

```
loop:        ; a label to jump to
```

```
...
```

```
sjmp loop    ; jump back to beginning
```

```
end          ; end the program
```

Lines of Code

Alphanumeric characters - Carriage
Return - Text Editor - ASCII

Lines of Code

Instruction to the CPU and/or

Directive to the assembler

Lines of Code

Statement or

Line of code or

Instruction

8051 Instruction Syntax

label: instruction ;comment(s)

HERE: SJMP HERE ; loop until interrupt

Labels

fred2:

tablettwo:

receive:

8051 Instruction

Instr. Parts

1

2

3

mov

dest, source

(mnemonic)

(operands)

Comments

`;this is a comment`

`; any reserved words`

`;mov a, b`