

Microprocessor

Just Note:

Program to read two digits such that the second digit is less than the first digit, computes and display their difference

```
13B2:0100 mov ah,09                ; load and display the prompt
13B2:0102 mov dx,200
13B2:0105 int 21
13B2:0107 mov ah,01                ; read a character
13B2:0109 int 21
13B2:010B mov bl,al
13B2:010D sub bl,30                ; save first digit in BL in
                                   ASCII code
13B2:0110 mov dl,0a                ; line feed
13B2:0112 int 21
13B2:0114 mov ah,09                ; load and display the prompt
13B2:0116 mov dx,0250
13B2:0119 int 21
13B2:011B mov ah,01                ; read a character
13B2:011D int 21
13B2:011F mov bh,al
13B2:0121 sub bh,30                ; save second digit in BH in
                                   ASCII code
13B2:0124 mov ah,02
13B2:0126 mov dl,0d                ; carriage return
13B2:0128 int 21
13B2:012A mov dl,0a                ; line feed
13B2:012C int 21
13B2:012E mov dx,0300                ; load and display the prompt
13B2:0131 mov ah,09
13B2:0133 int 21
13B2:0135 sub bl,bh                ; subtract
13B2:0137 add bl,30                ; convert ASCII to Decimal
13B2:013A mov ah,02
13B2:013C mov dl,bl                ; Display the character\digit
13B2:013E int 21
13B2:0140 mov ah,4c                ; return control to DOS
13B2:0142 int 21
13B2:0144
-e 0200 "Enter the first digit : $"
-e 0250 "Enter the second digit : $"
-e 300 "Difference : $"
-G 0144
```

