Variables

Variable is a memory location. For a programmer it is much easier to have some value be kept in a variable named "**var1**" then at the address 5A73:235B, especially when you have 10 or more variables.

8086 compiler supports two types of variables: **BYTE** and **WORD**.

Syntax for a variable declaration:

name **DB** value

name **DW** value

 \mathbf{DB} - stays for $\underline{\mathbf{D}}$ efine $\underline{\mathbf{B}}$ yte.

DW - stays for <u>Define</u> <u>W</u>ord.

<u>name</u> - can be any letter or digit combination, though it should start with a letter. It's possible to declare unnamed variables by not specifying the name (this variable will have an address but no name).

<u>value</u> - can be any numeric value in any supported numbering system (hexadecimal, binary, or decimal), or "?" symbol for variables that are not initialized.

Ex/write program to load (AL)register with value (07) stored in variable and copy the value (1234h) that is stored in another variable to (BX) register.



