

C Language

Chapter # 9

Elements of C language

Lecture: 09

Today's Lecture

- ▶ What is Variables
- ▶ Rules for naming variables in C language

What is Variable

- ▶ A variable is a named memory location or memory cell.
- ▶ it is used to store programs' input data and its computational results during execution.
- ▶ The value of a variable may change during the execution of program.
- ▶ However, the name of variable cannot be changed.
- ▶ The variables are created in RAM. RAM is temporary memory. That is why the data stored in variable also temporary. The data stored in the variable is automatically removed when program ends.

Rules for Naming variables

1. Variable may include letters, numbers and underscore(_).
2. The first character of variable must be a letter or underscore(_). The use of underscore is not recommended. The Variables **9minutes**, **#home**, **2kg** are invalid
3. Blank spaces are not allowed in variable names. The variables **my car** and **your car** are invalid.
4. Both uppercase and lowercase are allowed. A user-defined variable is typically written in lowercase.
5. Special symbols cannot be used as variable name.
6. Reserved words cannot be used as variable name. The name **int**, **void** and **while** are invalid variables.
7. A variable can be up to 31 characters long for many compilers. If a variable consists of more than 31 characters, only first 31 characters will be used. The remaining characters will be ignored.
8. A variable can be declared only for one data type.

The End

Read this topic from your books and ask question if any confusion.

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