

28

Implicitly Typed Variables

Understanding Implicitly Typed Variables

- › The variables that are declared with 'var' keyword are called as 'implicitly-typed variables' (a.k.a type-inference).
- › Implicitly-typed variables are declared without specifying the 'type' explicitly; so that the C# compiler automatically identifies the appropriate data type at compilation-time, based on the value assigned at the time of declaration.

Implicitly Typed Variables

```
var variableName = value;
```

- › While declaration, the 'type' of implicitly-typed variables is fixed.
 - › It is not possible to change the type of that variable or assign "other type of values" into the implicitly typed variables, after declaration.
- › Implicitly Typed Variables can only be "local variables"; can't be used for method parameters, return type or fields.
- › Implicitly Typed Variables must be initialized along with declaration.
- › It is not possible to declare multiple implicitly typed variables in the same statement.
 - › Ex: var x = 10, y = 20; //error
- › It is not possible to assign "null" into implicitly typed variables (while declaration).
 - › Ex: var x = null; //error