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Whenever the data type supports null value, you can call it as Nullable Type. and whenever the datatype doesn't support null values, you can call it as Non-Nullable type.

Nullable Types

Value Types

(structures, enumerations)

- > Value Types are by default non-nullable types.
- Non-nullable types doesn't support 'null' values to be assigned to its variables.

Converting Value-Types to Nullable-Types

Reference Types

(classes, interfaces)

- Reference Types are by default nullable types.
- types support Nullable 'null' values assigned to its variables.
- > They doesn't require the following syntax.

Nullable Types - Example 🔀 Harsha

Nullable \leq int > x = 10;

[or]

int? x = 10



Null coalescing operator

What

- > The 'null coalescing operator' checks whether the value is null or not.
 - > It returns the left-hand-side operand if the value is not null.
 - > It returns the right-hand-side operand if the value is null.

Advantage

> Simplifying the syntax of 'if statement' to check if the value is null.

Null Coalescing Operator

variableName ?? valueIfNull





Null Propagation Operator



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Null Propagation Operator

What

- The "Null Propagation Operator (?.) and (?[]) checks the value of left-hand operand whether it is null or not.
 - > It returns the right-hand-side operand (property or method), if the value is not null.
 - > It returns null, if the value is null.
- > It accesses the property or method, only if the reference variable is "not null"; just returns "null", if the reference variable is "null".

Null Propagation Operator (?.)

referenceVariable?.fieldName;



-- is same as --

(referenceVariable == null)? null : referenceVariable.fieldName;

Null Propagation Operator

Advantage

We can invoke desired member (property or method) after checking if null.