

# JavaScript Variables

# JavaScript Variables – using **var** keyword

- JavaScript variables are containers used for **storing data**
- in computer's **memory**

//price1, price2, total are **VARIABLES**

```
var price1;
```

```
var price2;
```

```
var total;
```

# JavaScript Variables **Naming RULES**

1. Variable names must **begin** with a **letter**, **\$**, or **\_**.
  - **Common practice** is to begin with letter.
2. Variable names can contain a **combination**.
3. NO spaces or any other characters.
4. NO **keywords**.
5. Variable names are **case Sensitive**.

**lastName** and **lastname** are not the same.

# JavaScript Variables **Naming Convention**

1. Variable names should be **descriptive**.
  - Use names that are meaningful.
2. User lower case **Camel Casing**.
  - First word should be lower case, subsequent words begin with a capital letter.
  - **birthDate** instead of **birthdate**
3. Be **consistent**.

# Declaring a Variable

- Use the **var** keyword to declare a variable.
- A variable declared without a value will have the value **undefined**.

//The following variable is declared. Value is **undefined**.

```
<script>  
var age;  
</script>
```

# NOT Declaring a Variable

- Using a variable without declaring will cause an **ERROR**.

```
<script>
```

```
console.log(carName);
```

```
</script>
```

# JavaScript Expression

- Use the **= to assign values** to the variable.
- An expression is a **combination** of values, variables, and arithmetic operators ( + - \* / ), which **computes** to a value.
- You can also assign a value to the variable when you declare it.

# JavaScript – Declare and Initialize

//Used 2 JavaScript statements

**var carName;**

//**declare** the variable

**carName = "Volvo";**

//**assign** a value to the variable



# JavaScript - Declare and Initialize

**//Only 1 JavaScript statement used**

```
var carName = "Volvo";
```

/\***declaring** a variable and at the same time **assign** a value to the variable\*/

```
var price1 = 5;
```

```
var price2 = 6;
```

```
var total = price1 + price2;
```

# JavaScript Expression – single line **separate by commas**

- You can declare many variables in one statement.
- Start the statement with **var** and separate the variables by **comma**:

//variables are declared and values are at the same time assigned

```
var person = "John Doe", carName = "Volvo", price = 200;
```

# JavaScript Expression – **span multi-lines**

- A declaration can **span multiple lines**
- A **comma** at the end of each line.
- A **final semicolon** at the end of the declaration

```
var person = "John Doe",  
carName = "Volvo",  
price = 200;
```