# JavaScript Statements

# JavaScript Programs

- A computer program is a **list of instructions** to be executed by a computer.

- In a programming language, these programming instructions are **called statements**.

- A JavaScript program is a list of **programming statements**.

- In HTML, JavaScript programs are **executed** by the web browser.

# JavaScript Statements

- Composed of Values, Operators, Expressions, Keywords, and Comments.

- Each JavaScript statement is **executed one by one** in the order they are written.

- For **readability**, put one JavaScript statement on each line.

# JavaScript Statements Examples

- Composed of Values, Operators, Expressions, Keywords, and Comments.

```
var num1;
num1 = 5;
total = total + 4;
firstName = 'John';
document.write(firstName);
//This is a comment line that will be ignored on execution
```

# JavaScript Statements – Semicolon;

Each JavaScript statement ends in a **semicolon;**


**&lt;script&gt;**

**document.getElementById("demo").innerHTML = "Hello Dolly.";**

**&lt;/script&gt;**

# JavaScript Statements – Semicolon;

Each JavaScript statement ends in a **semicolon;**

**&lt;script&gt;**
var a, b, c;
a = 1;
b = 2;
c = a + b;
document.getElementById("demo1").innerHTML = c;
**&lt;/script&gt;**

# JavaScript Statements – Multiple Statements

- However, **multiple statements** on one line are allowed, just separate them by semicolons.

**&lt;script&gt;**

var a, b, c;

a = 1; b = 2; c = a + b;

document.getElementById("demo1").innerHTML = c;

**&lt;/script&gt;**

# JavaScript Statements – White Space

- Add white space to make script more readable.
- White space is ignored.
- **GOOD PRACTICE**: Put spaces around operators (= + - * / )

Good Practice:        c = a + b;

Instead of:            c =a+b;

# JavaScript Statements – Line Length and Line Breaks

- For readability, **avoid** statements longer than 80 characters.
- To break a long statement, the best place to **break** it is after an **operator**.

**&lt;script&gt;**

document.getElementById("demo").innerHTML =

"Hello Dolly!";

**&lt;/script&gt;**

# JavaScript Statements – {Code Blocks}

- Statements can be grouped together in code blocks inside **{curly brackets}**

```
{

        GOOD PRACTICE: Indent block of code by 4 spaces.

}
```

# JavaScript Statements – Avoid Keywords

- Keywords are **reserved** words and **cannot** be used for **variables**.

- Statements starting with a keyword is used to identify the JavaScript action to be performed.

- **KEYWORDS**:

break, continue, debugger, do … while, for, function, if … else, return, switch, try … catch, var