# 

# 1) WHAT IS TAG?

THE TAG IN HTML IS USED TO CREATE A TABLE. A TABLE IN HTML CONSISTS OF ROWS AND COLUMNS, WHERE DATA CAN BE ORGANIZED AND DISPLAYED IN A TABULAR FORMAT.

#### 2) WHY WE NEED THIS TAG: PURPOSE AND ADVANTAGES

#### PURPOSE:

- TO DISPLAY DATA IN A STRUCTURED AND ORGANIZED MANNER.
- TO REPRESENT TABULAR DATA IN WEB PAGES, SUCH AS SPREADSHEETS, REPORTS, FINANCIAL DATA, ETC.

#### **ADVANTAGES:**

- ORGANIZATION: ALLOWS FOR CLEAR ORGANIZATION OF DATA INTO ROWS AND COLUMNS.
- READABILITY: MAKES DATA MORE READABLE AND EASIER TO UNDERSTAND.
- STYLE AND DESIGN: CAN BE STYLED USING CSS TO MAKE DATA PRESENTATION MORE VISUALLY APPEALING.
- ACCESSIBILITY: CAN BE USED WITH SCREEN READERS TO MAKE DATA ACCESSIBLE TO USERS WITH DISABILITIES.

#### 3) HOW TO USE TAGS

# BASIC STRUCTURE: html Copy code <TABLE> <TR> <TH>HEADER 1</TH> <TH>HEADER 2</TH> </TR> <TR> <TD>DATA 1</TD> </TR> </TR> <TR> <TR> <TD>DATA 3</TD>

```
<TD>DATA 4</TD>
</TR>
</TABLE>
TAGS:
: DEFINES THE TABLE.
: DEFINES A TABLE ROW.
: DEFINES A TABLE HEADER CELL (BOLD AND CENTERED BY DEFAULT).
: DEFINES A TABLE DATA CELL.
  4) REAL-TIME EXAMPLES
EXAMPLE 1: SIMPLE TABLE
<!DOCTYPE html>
<HTML LANG="EN">
<HEAD>
 <META CHARSET="UTF-8">
 <TITLE>SIMPLE TABLE EXAMPLE</TITLE>
 <STYLE>
   TABLE {
     WIDTH: 50%;
     BORDER-COLLAPSE: COLLAPSE;
   }
   TH, TD {
     BORDER: 1PX SOLID BLACK;
     PADDING: 8PX;
     TEXT-ALIGN: LEFT;
   }
   TH {
     BACKGROUND-COLOR: #F2F2F2;
   }
 </STYLE>
</HEAD>
<BODY>
 <H2>STUDENT SCORES</H2>
```

```
<TABLE>
   <TR>
     <TH>NAME</TH>
     <TH>SUBJECT</TH>
     <TH>SCORE</TH>
   </TR>
   <TR>
     <TD>JOHN DOE</TD>
     <TD>MATH</TD>
     <TD>90</TD>
   </TR>
   <TR>
     <TD>JANE SMITH</TD>
     <TD>ENGLISH</TD>
     <TD>85</TD>
   </TR>
   <TR>
     <TD>BOB JOHNSON</TD>
     <TD>SCIENCE</TD>
     <TD>95</TD>
   </TR>
 </TABLE>
</BODY>
</HTML>
```

#### **OUTPUT:**

A SIMPLE TABLE DISPLAYING STUDENT SCORES



#### STUDENT SCORES

| NAME        | SUBJECT | SCORE |
|-------------|---------|-------|
| JOHN DOE    | MATH    | 90    |
| JANE SMITH  | ENGLISH | 85    |
| BOB JOHNSON | SCIENCE | 95    |

# 1) WHAT IS TAG?

THE TAG IN HTML IS USED TO DEFINE A CELL IN A TABLE ROW. IT STANDS FOR "TABLE DATA" AND IS USED TO REPRESENT THE ACTUAL DATA OR CONTENT INSIDE A TABLE.

#### 2) WHY WE NEED THIS TAG: PURPOSE AND ADVANTAGES

#### PURPOSE:

- TO DEFINE AND DISPLAY INDIVIDUAL DATA CELLS IN A TABLE.
- TO ORGANIZE CONTENT IN A STRUCTURED AND READABLE FORMAT WITHIN A TABLE.

#### **ADVANTAGES:**

- STRUCTURED DATA: ALLOWS FOR THE ORGANIZATION OF DATA INTO ROWS AND COLUMNS, MAKING IT MORE STRUCTURED.
- CLARITY: ENHANCES THE READABILITY OF DATA BY SEPARATING IT INTO DISTINCT CELLS.
- STYLE AND DESIGN: CAN BE STYLED USING CSS TO IMPROVE VISUAL PRESENTATION.
- ACCESSIBILITY: CAN BE USED WITH SCREEN READERS TO MAKE DATA ACCESSIBLE TO USERS WITH DISABILITIES.

#### 3) HOW TO USE TAGS

#### BASIC USAGE:

THE TAG IS USED WITHIN A (TABLE ROW) TAG AND IS NESTED INSIDE A TAG. HERE'S THE BASIC SYNTAX:

```
<TABLE>
<TR>
<TD>DATA 1</TD>
<TD>DATA 2</TD>
</TR>
</TR>
<TR>
<TD>DATA 3</TD>
</TD>
</TD>
```

```
</TR>
</TABLE>
  4) REAL-TIME EXAMPLES
EXAMPLE: SIMPLE TABLE WITH DATA CELLS
<!DOCTYPE html>
<HTML LANG="EN">
<HEAD>
 <META CHARSET="UTF-8">
 <TITLE>TABLE EXAMPLE WITH <TD> TAG</TITLE>
 <STYLE>
   TABLE {
     WIDTH: 50%;
     BORDER-COLLAPSE: COLLAPSE;
   }
   TH, TD {
     BORDER: 1PX SOLID BLACK;
     PADDING: 8PX;
     TEXT-ALIGN: LEFT;
   }
   TH {
     BACKGROUND-COLOR: #F2F2F2;
   }
 </STYLE>
</HEAD>
<BODY>
 <H2>EMPLOYEE DETAILS</H2>
 <TABLE>
   <TR>
     <TH>NAME</TH>
     <TH>DEPARTMENT</TH>
```

```
<TH>SALARY</TH>
   </TR>
   <TR>
     <TD>ALICE</TD>
     <TD>HR</TD>
     <TD>$50,000</TD>
   </TR>
   <TR>
     <TD>BOB</TD>
     <TD>ENGINEERING</TD>
     <TD>$70,000</TD>
   </TR>
   <TR>
     <TD>CHARLIE</TD>
     <TD>MARKETING</TD>
     <TD>$60,000</TD>
   </TR>
 </TABLE>
</BODY>
</HTML>
OUTPUT:-
    ★ TABLE EXAMPLE WITH <TD> TA X +
```

# EMPLOYEE DETAILS

G

| NAME    | DEPARTMENT  | SALARY   |
|---------|-------------|----------|
| ALICE   | HR          | \$50,000 |
| вов     | ENGINEERING | \$70,000 |
| CHARLIE | MARKETING   | \$60,000 |

① File C:/Users/bhara/OneDrive/Desktop/index.html

# 1) WHAT IS TAG?

THE TAG IN HTML IS USED TO DEFINE A HEADER CELL IN A TABLE. IT STANDS FOR "TABLE HEADER" AND IS USED TO DESIGNATE CELLS THAT CONTAIN HEADER INFORMATION FOR COLUMNS OR ROWS.

## 2) WHY WE NEED THIS TAG: PURPOSE AND ADVANTAGES

#### **PURPOSE:**

- TO DEFINE HEADER CELLS IN A TABLE THAT PROVIDE CONTEXT AND DESCRIPTION FOR THE DATA IN THE COLUMNS OR ROWS.
- TO IMPROVE THE STRUCTURE AND ORGANIZATION OF TABULAR DATA.

#### ADVANTAGES:

- READABILITY: HEADER CELLS MAKE TABLES EASIER TO READ AND UNDERSTAND BY PROVIDING CONTEXT FOR THE DATA.
- STYLING: BY DEFAULT, HEADER CELLS ARE BOLD AND CENTERED, MAKING THEM DISTINCT FROM REGULAR DATA CELLS.
- ACCESSIBILITY: SCREEN READERS USE HEADER CELLS TO PROVIDE USERS WITH A BETTER UNDERSTANDING OF THE TABLE'S STRUCTURE.
- SEMANTICS: HEADER CELLS CONVEY THE PURPOSE OF THE CELL CONTENTS TO BOTH BROWSERS AND SEARCH ENGINES.
- 3) HOW TO USE TAGS

#### **BASIC USAGE:**

THE TAG IS USED WITHIN A (TABLE ROW) TAG AND IS NESTED INSIDE A TAG. HERE'S THE BASIC SYNTAX:

```
<TABLE>
<TR>
<TR>
<TH>HEADER 1</TH>
<TH>HEADER 2</TH>
</TR>
</TR>
<TR>
<TD>DATA 1</TD>
</TD>
</TR>
</TR>
</TABLE>
```

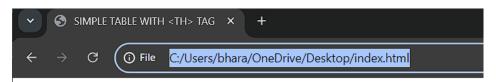
#### 4) REAL-TIME EXAMPLES

```
EXAMPLE 1: SIMPLE TABLE WITH HEADER CELLS
<!DOCTYPE html>
<HTML LANG="EN">
<HEAD>
 <META CHARSET="UTF-8">
 <TITLE>SIMPLE TABLE WITH <TH> TAG</TITLE>
 <STYLE>
   TABLE {
     WIDTH: 50%;
     BORDER-COLLAPSE: COLLAPSE;
   }
   TH, TD {
     BORDER: 1PX SOLID BLACK;
     PADDING: 8PX;
     TEXT-ALIGN: LEFT;
   }
   TH {
     BACKGROUND-COLOR: #F2F2F2;
   }
 </STYLE>
</HEAD>
<BODY>
 <H2>PRODUCT INVENTORY</H2>
 <TABLE>
   <TR>
     <TH>PRODUCT NAME</TH>
     <TH>QUANTITY</TH>
     <TH>PRICE</TH>
   </TR>
   <TR>
```

```
<TD>LAPTOP</TD>
     <TD>10</TD>
     <TD>$800</TD>
   </TR>
   <TR>
     <TD>SMARTPHONE</TD>
     <TD>20</TD>
     <TD>$500</TD>
   </TR>
   <TR>
     <TD>TABLET</TD>
     <TD>15</TD>
     <TD>$300</TD>
   </TR>
 </TABLE>
</BODY>
</HTML>
```

## **OUTPUT:**

EXAMPLE DISPLAYS A SIMPLE TABLE WITH COLUMN HEADERS DEFINING THE PRODUCT INVENTORY.



# PRODUCT INVENTORY

| PRODUCT NAME | QUANTITY | PRICE |
|--------------|----------|-------|
| LAPTOP       | 10       | \$800 |
| SMARTPHONE   | 20       | \$500 |
| TABLET       | 15       | \$300 |

# 1) WHAT IS TAG?

THE 
 TAG IN HTML IS USED TO DEFINE A ROW IN A TABLE. IT STANDS FOR "TABLE ROW" AND IS USED TO GROUP ONE OR MORE > (TABLE HEADER) OR > (TABLE DATA) ELEMENTS THAT REPRESENT THE CELLS IN THE ROW.

# 2) WHY WE NEED THIS TAG: PURPOSE AND ADVANTAGES

# PURPOSE:

- TO DEFINE A ROW IN A TABLE.
- TO GROUP CELLS INTO A STRUCTURED AND ORGANIZED ROW FORMAT.

#### ADVANTAGES:

- STRUCTURED DATA: ALLOWS FOR THE ORGANIZATION OF TABLE CELLS INTO ROWS, MAKING DATA MORE STRUCTURED.
- READABILITY: ENHANCES THE READABILITY OF TABLE DATA BY ORGANIZING IT INTO LOGICAL ROWS.
- CONSISTENCY: ENSURES CONSISTENT LAYOUT OF DATA BY DEFINING ROWS FOR BOTH HEADERS AND DATA CELLS.
- STYLING: CAN BE STYLED USING CSS TO IMPROVE VISUAL PRESENTATION AND DISTINGUISH DIFFERENT ROWS.
- 3) HOW TO USE TAGS

# BASIC USAGE:

THE TAG IS USED INSIDE A TAG AND CAN CONTAIN ONE OR MORE OR ELEMENTS. HERE'S THE BASIC SYNTAX:

```
<TABLE>
<TR>
<TR>
<TH>HEADER 1</TH>
<TH>HEADER 2</TH>
</TR>
</TR>
<TR>
<TD>DATA 1</TD>
</TD>
</TR>
</TR>
</TABLE>
```

## 4) REAL-TIME EXAMPLES

```
EXAMPLE: SIMPLE TABLE WITH ROWS
<!DOCTYPE html>
<HTML LANG="EN">
<HEAD>
 <META CHARSET="UTF-8">
 <TITLE>SIMPLE TABLE WITH <TR> TAG</TITLE>
 <STYLE>
   TABLE {
     WIDTH: 50%;
     BORDER-COLLAPSE: COLLAPSE;
   }
   TH, TD {
     BORDER: 1PX SOLID BLACK;
     PADDING: 8PX;
     TEXT-ALIGN: LEFT;
   }
   TH {
     BACKGROUND-COLOR: #F2F2F2;
   }
 </STYLE>
</HEAD>
<BODY>
 <H2>STUDENT GRADES</H2>
 <TABLE>
   <TR>
     <TH>NAME</TH>
     <TH>SUBJECT</TH>
     <TH>GRADE</TH>
   </TR>
```

```
<TR>
     <TD>JANE DOE</TD>
     <TD>MATH</TD>
     <TD>A</TD>
   </TR>
   <TR>
     <TD>JOHN SMITH</TD>
     <TD>ENGLISH</TD>
     <TD>B</TD>
   </TR>
   <TR>
     <TD>EMILY JOHNSON</TD>
     <TD>SCIENCE</TD>
     <TD>A+</TD>
   </TR>
 </TABLE>
</BODY>
</HTML>
```

## **OUTPUT**:

EXAMPLE DISPLAYS STUDENT GRADES IN A SIMPLE TABLE FORMAT WITH ROWS DEFINING THE DATA FOR EACH STUDENT.



# STUDENT GRADES

| NAME          | SUBJECT | GRADE |
|---------------|---------|-------|
| JANE DOE      | MATH    | A     |
| JOHN SMITH    | ENGLISH | В     |
| EMILY JOHNSON | SCIENCE | A+    |

# 

# 1) WHAT IS TAG?

THE TAG IN HTML IS USED TO GROUP THE BODY CONTENT IN A TABLE. IT CONTAINS ONE OR MORE 
 TAGS THAT DEFINE THE ROWS OF THE TABLE BODY. THE ELEMENT IS USED TO SEPARATE THE BODY CONTENT OF THE TABLE FROM THE HEADER (<thead>) AND FOOTER (<tfoot>).

#### 2) WHY WE NEED THIS TAG: PURPOSE AND ADVANTAGES

#### PURPOSE:

- TO GROUP AND ORGANIZE THE BODY CONTENT OF A TABLE SEPARATELY FROM THE HEADER AND FOOTER.
- TO PROVIDE A CLEAR STRUCTURE AND ORGANIZATION TO THE TABLE, MAKING IT EASIER TO MANAGE AND STYLE.

#### **ADVANTAGES:**

- STRUCTURE: SEPARATES THE BODY CONTENT FROM THE HEADER AND FOOTER, IMPROVING THE TABLE'S STRUCTURE AND READABILITY.
- STYLING: ALLOWS FOR SEPARATE STYLING OF THE TABLE BODY, HEADER, AND FOOTER USING CSS.
- ACCESSIBILITY: IMPROVES ACCESSIBILITY BY PROVIDING A CLEAR STRUCTURE THAT SCREEN READERS AND OTHER ASSISTIVE TECHNOLOGIES CAN UNDERSTAND.
- EASE OF MAINTENANCE: MAKES IT EASIER TO MANAGE AND UPDATE TABLE CONTENTS BY ORGANIZING THEM INTO DISTINCT SECTIONS.

# 3) HOW TO USE TAGS

#### BASIC USAGE:

THE TAG IS USED INSIDE A TAG AND CONTAINS ONE OR MORE 
 TAGS. HERE'S THE BASIC SYNTAX:

```
<TABLE>
<THEAD>
<TR>
<TH>HEADER 1</TH>
<TH>HEADER 2</TH>
</TR>
</TR>
</THEAD>
<TBODY>
```

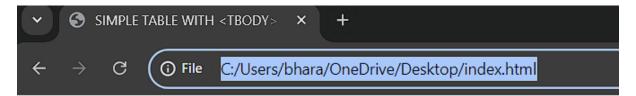
```
<TR>
  <TD>DATA 1</TD>
  <TD>DATA 2</TD>
 </TR>
 <TR>
  <TD>DATA 3</TD>
  <TD>DATA 4</TD>
 </TR>
</TBODY>
<TFOOT>
 <TR>
  <TD>FOOTER 1</TD>
  <TD>FOOTER 2</TD>
 </TR>
</TFOOT>
</TABLE>
  4) REAL-TIME EXAMPLES
EXAMPLE : SIMPLE TABLE WITH 
<!DOCTYPE html>
<HTML LANG="EN">
<HEAD>
 <META CHARSET="UTF-8">
 <TITLE>SIMPLE TABLE WITH <TBODY> TAG</TITLE>
 <STYLE>
   TABLE {
     WIDTH: 50%;
     BORDER-COLLAPSE: COLLAPSE;
   }
   TH, TD {
     BORDER: 1PX SOLID BLACK;
```

```
PADDING: 8PX;
     TEXT-ALIGN: LEFT;
   }
   TH {
     BACKGROUND-COLOR: #F2F2F2;
   }
 </STYLE>
</HEAD>
<BODY>
 <H2>CLASS SCHEDULE</H2>
 <TABLE>
   <THEAD>
     <TR>
       <TH>DAY</TH>
       <TH>SUBJECT</TH>
       <TH>TIME</TH>
     </TR>
   </THEAD>
   <TBODY>
     <TR>
       <TD>MONDAY</TD>
       <TD>MATH</TD>
       <TD>9:00 AM - 10:00 AM</TD>
     </TR>
     <TR>
       <TD>TUESDAY</TD>
       <TD>SCIENCE</TD>
       <TD>10:00 AM - 11:00 AM</TD>
     </TR>
     <TR>
```

```
<TD>WEDNESDAY</TD>
<TD>HISTORY</TD>
<TD>11:00 AM - 12:00 PM</TD>
</TR>
</TR>
</TBODY>
<TFOOT>
<TR>
<TD COLSPAN="3">NOTE: SCHEDULE IS SUBJECT TO CHANGE.</TD>
</TR>
</TR>
</TROOT>
</TRABLE>
</MODE)
```

## **OUTPUT:-**

EXAMPLE DISPLAYS A CLASS SCHEDULE, ORGANIZING THE TABLE INTO A HEADER, BODY, AND FOOTER SECTION. THE BODY CONTAINS THE MAIN SCHEDULE DATA.



# CLASS SCHEDULE

| DAY                                  | SUBJECT | TIME                |
|--------------------------------------|---------|---------------------|
| MONDAY                               | MATH    | 9:00 AM - 10:00 AM  |
| TUESDAY                              | SCIENCE | 10:00 AM - 11:00 AM |
| WEDNESDAY                            | HISTORY | 11:00 AM - 12:00 PM |
| NOTE: SCHEDULE IS SUBJECT TO CHANGE. |         |                     |

# <thead>

# 1) WHAT IS <thead> TAG?

THE <thead> TAG IN HTML IS USED TO GROUP THE HEADER CONTENT IN A TABLE. IT CONTAINS ONE OR MORE 
 TABLE. IT CONTAINS ONE OR MORE 
 TABLE. THIS TAG IS USED TO SEPARATE THE HEADER FROM THE BODY () AND FOOTER (<tfoot>) OF THE TABLE.

#### 2) WHY WE NEED THIS TAG: PURPOSE AND ADVANTAGES

# PURPOSE:

- TO DEFINE AND GROUP THE HEADER ROWS OF A TABLE.
- TO PROVIDE A CLEAR STRUCTURE THAT SEPARATES THE HEADER FROM THE BODY AND FOOTER.

#### **ADVANTAGES:**

- STRUCTURE: SEPARATES THE HEADER CONTENT FROM THE BODY AND FOOTER, IMPROVING THE TABLE'S STRUCTURE AND READABILITY.
- STYLING: ALLOWS FOR SEPARATE STYLING OF THE HEADER USING CSS, MAKING IT EASIER TO DISTINGUISH HEADER ROWS FROM THE REST OF THE TABLE.
- ACCESSIBILITY: IMPROVES ACCESSIBILITY BY PROVIDING A CLEAR STRUCTURE THAT SCREEN READERS AND OTHER ASSISTIVE TECHNOLOGIES CAN UNDERSTAND.
- CONSISTENCY: ENSURES THAT HEADER INFORMATION IS CONSISTENTLY PLACED AT THE TOP OF THE TABLE.

#### 3) HOW TO USE <thead> TAGS

#### BASIC USAGE:

THE <thead> TAG IS USED INSIDE A TAG AND CONTAINS ONE OR MORE 
 TAGS. HERE'S THE BASIC SYNTAX:

```
<TABLE>
<THEAD>
<TR>
<TH>HEADER 1</TH>
<TH>HEADER 2</TH>
</TR>
</TR>
</THEAD>
<TBODY>
```

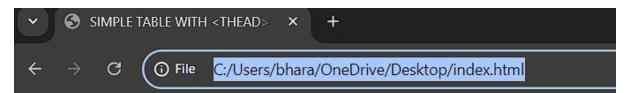
```
<TR>
  <TD>DATA 1</TD>
  <TD>DATA 2</TD>
 </TR>
</TBODY>
 <TFOOT>
 <TR>
  <TD>FOOTER 1</TD>
  <TD>FOOTER 2</TD>
 </TR>
</TFOOT>
</TABLE>
  4) REAL-TIME EXAMPLES
EXAMPLE : SIMPLE TABLE WITH <thead>
<!DOCTYPE html>
<HTML LANG="EN">
<HEAD>
 <META CHARSET="UTF-8">
 <TITLE>SIMPLE TABLE WITH <THEAD> TAG</TITLE>
 <STYLE>
   TABLE {
     WIDTH: 50%;
     BORDER-COLLAPSE: COLLAPSE;
   }
   TH, TD {
     BORDER: 1PX SOLID BLACK;
     PADDING: 8PX;
     TEXT-ALIGN: LEFT;
   }
```

```
TH {
     BACKGROUND-COLOR: #F2F2F2;
   }
 </STYLE>
</HEAD>
<BODY>
 <H2>PRODUCT LIST</H2>
 <TABLE>
   <THEAD>
     <TR>
       <TH>PRODUCT NAME</TH>
       <TH>PRICE</TH>
       <TH>QUANTITY</TH>
     </TR>
   </THEAD>
   <TBODY>
     <TR>
       <TD>LAPTOP</TD>
       <TD>$900</TD>
       <TD>5</TD>
     </TR>
     <TR>
       <TD>SMARTPHONE</TD>
       <TD>$600</TD>
       <TD>10</TD>
     </TR>
     <TR>
       <TD>TABLET</TD>
       <TD>$300</TD>
       <TD>15</TD>
```

</TR>
</TBODY>
</TABLE>
</BODY>
</HTML>

# **OUTPUT:-**

EXAMPLE DISPLAYS A PRODUCT LIST, ORGANIZING THE TABLE INTO A HEADER AND BODY SECTION. THE HEADER CONTAINS THE COLUMN HEADERS.



# PRODUCT LIST

| PRODUCT NAME | PRICE | QUANTITY |
|--------------|-------|----------|
| LAPTOP       | \$900 | 5        |
| SMARTPHONE   | \$600 | 10       |
| TABLET       | \$300 | 15       |