HTML TABLE

- **Q1.** Explain the structure of an HTML table and the purpose of each of the following elements: ,,,and <thead>.
- **ANS.** An HTML table is used to display data in a grid format rows and columns making it easy to organize and compare information.

Purpose of elements:

```
<Table> - Table Container :-
```

It defines the start and end of the table. All table-related elements

```
<Tr> - table row :-
```

Defines a single row of cells in the table.Groups together table cells OR horizontally.

```
Ex. :-

Row 1, Column 1
Row 1, Column 2
```

<Th> - table head :-

Defia header cell in a table. Usually appears in the first row or first column; the text inside is bold and centered by default.

<Td> - table data :-

Defines a regular cell in a table containing data. Holds actual table content like text, images, links, etc..

<Thead> - table head :-

Groups the header rows of the table. Helps organize and semantically separate the table's heading section from the main body.

```
Ex. :-
<thead>

>name
```

Q2. What is the difference between colspan and rowspan in tables? Provide examples.

ANS.

Colspan :-

It merges cells horizontally. It is use when you want one cell to cover more than one column.

```
Ex.:-
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Colspan</title>
</head>
<body>
```

```
Name
Age

John
Smith

$25

</body>
</html>
```

Rowspan:-

Merges cells vertically (across rows). It is used when you want one cell to cover more than one row.

```
Ex. :-
     <!DOCTYPE html>
    <html lang="en">
    <head>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width,</pre>
    initial-scale=1.0">
     <title>Colspan</title>
    </head>
    <body>
    Name
      Math
      Science
     History
      English
     </body>
```

</html>

Q3.: Why should tables be used sparingly for layout purposes? What is a better alternative?

ANS.