

Academic Task No. 2

Course Code : CAP 756

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~~SECTION~~

Section : D2112

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## (1.) What is Bootstrap Grid System ?

Ans: → The Bootstrap Grid System allows up to 12 columns across the page. You can use all 12 columns individually or you ~~go~~ can group the columns together to create wider columns.

col- md-1	col- md-1	col- md-1	col- md-1	col- md-1	col- md-1	col- md-1	col- md-1	col- md-1	col- md-1	col- md-1	col- md-1	col- md-1
col-md-8								col-md-4				
col-md-4				col-md-4				col-md-4				
col-md-6						col-md-6						

Bootstrap Grid System is responsive and the columns are re-arranged automatically according to the screen size.

## Grid Classes :-

These are four classes in Bootstrap Grid System :-

- xs (for phones)
- sm (for tablets)
- md (for desktops)
- lg (for large desktops)



You can combine the above classes to create more dynamic and flexible layouts.

### Basic Structure of a Bootstrap Grid :-

```
<div class = "row">
  <div class = ".col-*-*"> </div>
</div>
```

```
<div class = "row">
  <div class = ".col-*-*"> </div>
  <div class = ".col-*-*"> </div>
  <div class = ".col-*-*"> </div>
</div>
```

```
<div class = "row">
  ...
  ...
  ...
</div>
```

Follow the below instructions while creating a Bootstrap Grid :-

- Create a row (`<div class = "row">`).
- Add the numbers of columns, you want in the grid (tags with appropriate `.col-*-*` classes).
- Note that numbers in `.col-*-*` should always add up to 12 for each row.



## Bootstrap Grid System Example :-

\* For equal columns :-

```
<!DOCTYPE html>
```

```
<html lang = "en">
```

```
<head>
```

```
<title> Job </title>
```

```
<link rel = "stylesheet"
```

```
href = "https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css" />
```

```
</head>
```

```
<body>
```

```
<div class = "container">
```

```
<h1> Grid System Example </h1>
```

```
<div class = "row">
```

```
<div class = "col-md-3" style = "background-  
-color: lavender; "> Rahul </div>
```

```
<div class = "col-md-3" style = "background-  
-color: lavenderblush; "> Vijay </div>
```

```
<div class = "col-md-3" style = "background-  
-color: lavender; "> Kartik </div>
```

```
<div class = "col-md-3" style = "background-  
-color: lavenderblush; "> Ajeet </div>
```

```
</div>
```

```
</div>
```



```
<script src = "https://ajax.googleapis.com/ajax/
  /libs/jquery/1.11.3/jquery.min.js">
</script>
```

```
<script src = "https://maxcdn.bootstrapcdn.com/
  bootstrap/3.3.5/js/bootstrap.min.js">
</script>
```

```
</body>
```

```
</html>
```

Output

Output:-

Grid System Example:

Rahul

Vijay

Kartik

Ajeet

\* For Unequal columns:-

```
<!DOCTYPE html>
```

```
<html lang = "en">
```

```
<head>
```

```
<title> Unequal </title>
```

```
<link rel = "stylesheet"
```

```
href = "https://maxcdn.bootstrapcdn.com/
  bootstrap/3.3.6/css/bootstrap.min.
  css" />
```

```
</head>
```

```
<body>
```



```
<div class = "Container">
```

```
< h1 > Grid System Example 2 </h1>
```

```
<div class = "row">
```

```
<div class = "col-md-1" style = "background-  
- color : white lavender ; > Rahul </div>
```

```
<div class = "col-md-2" style = "background-  
- color : white ; "> Vijay </div>
```

```
<div class = "col-md-4" style = "background-  
- color : white " ; > Karthik </div>
```

```
<div class = "col-md-5" style = "background-  
color : white " ; > Ajeet </div>
```

```
</div>
```

```
</div>
```

```
<script> src = "https://ajax.googleapis.com/  
ajax/libs/jquery/1.11.3/jquery.min.js"  
</script>
```

```
<script> src = "https://maxcdn.  
bootstrapcdn.com/bootstrap/3.3.5/js/  
bootstrap.min.js"
```

```
</body>
```

```
</html>
```

Output:-

Grid System Example 2

Rahul

Vijay

Karthik

Ajeet



(2) What is Table ? How can we add hover to a table ?

Ans:- A Table is an arrangement of information in rows and columns containing cells that make comparing and contrasting information easier.

We can create different types of table Bootstrap tables by using different classes to style them. The basic Bootstrap table has a light padding and only horizontal dividers. The `table` class is used to add basic styling to a table.

```
<!DOCTYPE html>
```

```
<html lang = "en">
```

```
< head>
```

```
<title> Table </title>
```

```
<link rel = "stylesheet" href = "https://
maxcdn.bootstrapcdn.com/bootstrap/3.3.6/
css/bootstrap.min.css" />
```

```
</head>
```

```
<body>
```

```
<div class = "container">
```

```
<h1> Basic Table Example </h1>
```

```
<table class = "table">
```



```
</tr><th>ID</th><th>Name</th><th>Age</th>
<tr><th>101</th><td>Rahul</td><td>23</td>
<tr><th>102</th><td>Omegh</td><td>22</td>
<tr><td>103</td><td>Max</td><td>29</td>
<tr><td>104</td><td>Ajeet</td><td>21</td>
</table>
```

```
</div>
```

```
<script>
```

```
src="https://ajax.googleapis.com/ajax/libs/jquery
1.11.3/jquery.min.js">
```

```
</script>
```

```
<script>
```

```
src="https://maxcdn.bootstrapcdn.com/bootstrap
1.3.3.5/js/bootstrap.min.js">
```

```
</script>
```

```
</body>
```

```
</html>
```

Output:-

P.T.O



## Basic Table Example

Id	Name	Age
101	Rahul	23
102	Umesh	22
103	Max	29
104	Ajacet	21

We can add hover on the table by using `table-hover` class is :-  
used to add a

Example :-

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title> Bootstrap Example </title>
```

```
<link rel="stylesheet"
```

```
href="https://maxcdn.bootstrapcdn.com/bootstrap  
5.0.0-beta.2/css/bootstrap.min.css">
```

```
<script>
```

```
src="https://ajax.googleapis.com/ajax/libs/  
jquery/3.2.1/jquery.min.js">
```

```
</script>
```



<script>

src = "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.6/umd/popper.min.js"

</script>

<script src = "https://maxcdn.bootstrapcdn.com/bootstrap/5.0.0-beta.2/js/bootstrap.min.js"></script>

</head>

<body>

<div class = "container">

<h2> Hoverable Table </h2>

<table class = "table ~~table-dark~~ table-hover">

<thead>

<tr>

<th> Id </th>

<th> Name </th>

<th> Age </th>

</tr>

</thead>

<tbody>

<tr>

<td> R. LOL </td>

<td> Rahul </td>

<td> 23 </td>

</tr>



```

<tr>
  <td> 102 </td>
  <td> Umesh </td>
  <td> 22 </td>
</tr>

<tr>
  <td> 103 </td>
  <td> Max </td>
  <td> 29 </td>
</tr>

<tr>
  <td> 104 </td>
  <td> Ajeet </td>
  <td> 21 </td>
</tr>
</tbody>
</table>
</div>
</body>
</html>

```

## Output

### Hoverable Table

Id	Name	Age
101	Rahul	23
102	Umesh	22
103	Max	29
104	Ajeet	21



(3)

Explain the concept of default parameters in Javascript ES6.

Ans:- Function parameters with default values are initialized with default values if they contain no value or are undefined. JavaScript function parameters are defined as undefined by default. However, it may be useful to set a different default value. That is where default parameters come into play.

Syntax

Syntax :-

```
function name (parameter = value, ---  
                parameters)
```

```
{
```

```
}
```

Example ①

if we multiply two numbers in this example without passing a second parameter and without using the default parameter, the answer that



this function will return is **NAN** (Not a number), since if we do not pass the second parameter, the function will multiply the first number with undefined.

```
<script>
```

```
function multiply(a, b)
{
    return a * b;
}
```

```
let num1 = multiply(5);
```

```
console.log(num1);
```

```
let num2 = multiply(5, 8);
```

```
console.log(num2);
```

```
</script>
```

Output

NAN

40

**Example 2:** If we do not pass a number as the second parameter and take the default parameter as the second parameter, it will multiply the first number with the default



number, and if we pass two numbers as parameters, it will multiply the first number with the second number.

```
<script>
```

```
function multiply (a, b = 2)
```

```
{
```

```
    return a * b;
```

```
}
```

```
let num1 = multiply(5);
```

```
console.log(num1);
```

```
let num2 = multiply(5, 8);
```

```
console.log(num2);
```

```
</script>
```

output

10

40

**Example (3):** Default parameter with constructor : we can use the default parameter concept with the constructor of a class.

```
<script>
```

```
class Greeks
```

```
{
```

```
    constructor (a, b = 3)
```



{

console.log(a \* b);

}

let obj = new Geeks(5);

let obj1 = new Geeks(5, 4);

&lt;/script&gt;

Output

15

20