DATE
PAGE No

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Div :- A [M, A4]

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2204030102650

DATE
PAGE No

[CSS Casting]

* Types of CSS

1. Inline
2. Internal
3. External

1] Inline :- An inline CSS is used to apply a unique style to a HTML element.

Syntax :-

```
<p style="Color:red;">Hello</p>
```

Ex :-

```
<Html>
<body>
<h1 style="Color:blue;">Hello world</h1>
<p style="Color : Red;">Paragraph</p>
</body>
</Html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No.

2] Internal CSS :- An internal CSS is used to define a sytle for a single HTML page.

Syntex :-

```
body { background-color: blue; }
h1 { color: blue; }
```

ex. :-

```
<Html>
<head>
<style>

    body { background-color : red; }
    h1 { color: Black; }
</style>
</head>

<body>
    <h1> This is heading </h1>
    <P> This is Paragraph </P>

</body>
</html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

3) External CSS :- An external style sheet is used to define the style for Many HTML Pages.

=> To use an external style sheet add a link to it in the <head> section of each HTML Page

Syntax :

<link Rel = " stylesheet" href = "style>

ex. :-

<Html>
<head>
<link Rel = "stylesheet" href =

* CSS Selectors *

1. id Selector
2. The CSS class selector
3. Universal selectors
4. Grouping Selector.

Scanned with CamScanner

2204030102650

DATE
PAGE No

1] id Selector :- The id selector uses the id attribute of an HTML element to select a specific element.

⇒ To select an element with a specific id, write a hash (#) character, followed by the id of the element.

Syntax :-

```
#para1 {
        Text-align : center;
        color : red;
        }
```

ex. :-

```
<Html>
<head>
<style>
    #para1 {
        text-align : center;
        color : blue;
        }
</style>
</head>
<body>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

```
<P id="Para1"> Hello world ! </P>
<P> This is Paragraph </P>
</body>
</html>
```

2] Class selector :- The class selector HTML elements with a specific class attribute.

=> The select elements with a specific class, write a period (.) character, followed by the class name,

Syntex :-

```
.Center {
        text-align : Center;
        Color : red;
        }
P.Center {
        text-Color : red;
        }
```

Ex :-

```
<html>
<head>
<Style>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

```
.Center {
        text-allign : center ;
        color : red ;
        }
</style>
</head>
<body>
        <h, class = "center" > Red and Center </h>
        <P class = " center" > Paragraph </P>
</body>
</html>
```

[P. Center, P. large, H, . Center]

3] Universal selector :- The Universal selector (*) select all HTML element on the page.

Syntex :-

```
* {
        text allign : center ;
        color : golden ;
        }
```

id, class.

2204030102650

DATE
PAGE No

4] Grouping Selectors :- The grouping selector all the html element with the same style definitions.

=> Look at the following Css code (The h_1, h_2, and p elements have same style definitions);

Syntex :-

```
<style>
    h1, h2, p {
        Text-allign : center;
        Color : Pink;
    }
</style>
```

* Image hover effect *

```
<html>
<head>
    <style>
        Container {
            Position : relative;
            width : 100%;
```

Scanned with CamScanner

2204030102650

DATE
PAGE No.

```
}
• Image {
        display : block;
        width : 75%;
        height : 100%;
        transition : 6s ease;
        opacity : 1;
        back face-visibility : hidden;
}

• Middle {
        transition : 6s ease, Right : 30%;
        Position : absolute;
        top : 50%;
        transform : translate [-50%, -50%];
        text-align : center;
}

• container : hover. image {
        opacity : 0.5;
}

• Container : hover. middle; {
        opacity : 1;
}

• Text {
        background-color : Pink;
        Color : Solid Black;
        Font-size : 20px;
        Font-family : Arial
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

```
        Padding : 16px, 20px ;
    }

</style>
</head>
<body>

<h2> silver oak University </h2>

<div class = "container">
    <img src = "img.SOU.Png"
    alt = "SOU" class="1"
    style = "width : 100%">

<div class = "middle">
    <div class = "text> University </div>
    </div>

</body>
</html>
```

Scanned with CamScanner

220403010265O

DATE
PAGE No

[layout:1]

```
<!DOCTYPE html>
<html>
<head>

    <title> layout type </title>
    <style type="text/css">

    * {
        font-size: 22px;
        font-weight: bold;
    }
    #R1 {
        background-color: gray;
        height: 40px;
        Padding-top: 30px;
        width: 95%;
        Padding-left: 5%;
        margin-bottom: 10px;
        line-height: 40px;
    }
    #R2, #R5 {
        background-color: Pink;
        height: 30px;
        width: 100px;
        padding-top: 7px;
        text-align: Center;
        margin-bottom: 10px;
    }
```

Scanned with CamScanner

220403010265O

DATE
PAGE No

```
#R3 {
        background-color : gray;
        height : 75px;
        width : 100%;
        Padding-top : 71px;
        text-align : center;
        line-height : 75px;
    }
#R4 {
        height : 600px;
        width : 100%;
        margin-bottom : 10px;
    }
#R4C1 {
        width : 32%
        margin-right : 1%;
    }
#R4C2 {
        width : 32%
        margin-right : 1%;
        margin-left : 1%;
    }
# R4C3 # {
        width : 32%
        margin-left : 1%
    }
```

Scanned with CamScanner

2204030102650

```
#R4 div {
        Float : left;
        height : 320px;
        Padding-top : 280px;
        text-allign : Center;
        background-Color : grey;
        }
  </Style>
</head>
<body>

  <div>
      <div id="R1"> Logo </div>
      <div id="R2> Navigation </div>
      <div id="R3> Header/Banner </div>
      <div id="R4>
          <div id="R4C1"> Sidbar </div>
          <div id="R4C2"> body Area </div>
          <div id="R4C3"> Body text </div>
          </div>
      <div id="R5"> Footer </div>
  </div>

</body>
</html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

[layout : 2]

```
<html>
<head>
        <title> GRAY LAYOUT </title>
        <style type="text/css">

        * {
                Font-size : 30px;
                Font-width : bold;
        }

        #R1 {
                background-Color : gray;
                height : 50px;
                width : 98%;
                Padding-top : 10px;
                Padding-left : 2%;
                margin-bottom : 10px;
        }

        #R2, #R5 {
                background-color : gray;
                height : 40px;
                width : 100%;
                text-align : center
                Padding-top : 10px;
                margin : 15px;
        }
```

Scanned with CamScanner

220403010265O

```
#R3 {
        background-Color : gray;
        height : 60px;
        width : 100%;
        text-align : Center;
        Padding-top : 40px;
        margin-bottom : 2px;
    }
#R4 {
        height : 600px;
        width : 100%;
        Padding-bottom : 10px;
        Padding-top : 20px;
    }
#R4C1 {
        width : 78%;
        margin-right : 2%;
    }
#R4C2 {
        width : 70%;
    }

#R4 div {
        background-Color : gray;
        float : left;
        height : 570px;
        Padding-top : 30px;
        text-align : Center;
```

Scanned with CamScanner

220403010265O

DATE
PAGE No

```
        line-height : 575px;
    }

    </style>
</head>
<body>

    <div id="R1"> Logo </div>
    <div id="R2"> Navigation </div>
    <div id="R3"> header/Banner </div>
    <div id="R4">
        <div id="R4C1> side bar </div>
        <div id="R4C2> body area </div>
    </div>
    <div id="R5"> Footer </div>

</body>
</html>
```

Scanned with CamScanner

220403010265o

DATE
PAGE No

[layout : 3].

```
<html>
<head>
        <title> Gray layout </title>
        <style type="text/css">

        * {
            Font-size : 20px;
            Font-weidth : bold;
        }

    #R1 {
            background-Color : grey;
            height : 40px;
            Padding-top : 30px;
            width : 95%;
            Padding-left : 5%;
            margin-bottom : 10px;
        }

#R2, #R3, R5, {
            background-color : gray;
            height : 33px;
            width : 100%;
            Padding-top : 7px;
            text-align : center;
            margin-bottom : 10px;
        }
```

Scanned with CamScanner

2204030102650

DATE
PAGE No.

```
#R4 {
        height: 600px;
        width: 100%;
        margin-bottom: 10px;
    }
#R4C1 {
        width: 23.5%;
        margin-right: 1%;
    }
#R4C2 {
        width: 23.5%;
        margin-left: 1%;
    }
#R4C3 {
        width: 23.5%;
        margin-right: 1%;
        margin-left: 1%;
    }
#R4C4 {
        width: 23.5%;
        margin-left: 1%;
    }
#R4 div{
        Float: left;
        height: 320px;
        Padding-top: 280px;
        text-align: center;
        background-color: grey;
```

Scanned with CamScanner

22040301026 50

DATE
PAGE No

```
        </style>
</head>
<body>

        <div>
            <div id="R1">Logo</div>
            <div id="R2">Navigation</di
            <div id="R3">Header</div>
            <div id="R4">
                <div id="R4C1">Side Bar</d
                <div id="R4C2">Body area</di
                <div id="R4C3">Body text</div
                <div id="R4C4">Body text</di
            </div>
        </div>
            <div id="R5">Footer</div>
        </div>

</body>
</html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

[Video Position Effect]

Syntax :

```
<video width = 100% height : 100%>
<source src = "video.mp4" type =
"video/mp4 >
</video>
```

Ex. :

```
<html>
<head>
        <title> Video </title>
</head>
<body>
        <video width= 100%; height: 100% >
        <source src = "Map.mp4" type =
        "video/mp4" >
        </video>
</body>
</html>
```

Scanned with CamScanner

220403010 2650

DATE
PAGE No

[Image-hover Effect]

```
<html>
<head>
    <style>

    .Container {
            Position : relative;
            width : 50%;
        }

    .Image {
            top : 0;
            bottom : 0;
            left : 0;
            Right : 0;
            height : 100%;
            width : 100%;
            opacity : 0;
            transition : .5s ease;
            background-Color : blue;
        }
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

Font Awesome

```
<html>
<head>
        <title> Font awesome >

        <link rel="stylesheet" href="https:
        //cdnjs.cloudflare.com/ajax/libs/Fo
        -awesome/4.7.0/CSS/Font-awesome
        main.CSS" >
</head>
<body>
<center>

        <h1 style="background-Color: red">
        FONT Awesome ICONSS </h1>

        <i class="Fa Fa-motorCycle" style=
        "Font-size: 40px; Color black" > MOTOR
        Bycle </i> <br> <br>

        <i class="Fa Fa-Coment" > COMMENT
        </i> <br> <br>

        <i Class="Fa Fa-heart" > HEART
        </i> <br> <br>

        <i Class="Fa Fa-Phone" > PHONE
        </i> <br>
```

Scanned with CamScanner

2204030102050

DATE
PAGE No

```
</center>
</body>
</html>
```

[TABLE Rowspan and Colspan]

```
<!DOCTYPE html>
<html>
<head>
        <title> table </tite>
  <style>

  table {
          height : 30 %;
          width : 30 %;
          text-align : center;
          font-size : 30px;
          background-color : yellow;
        }

</style>
</head>
<body>
<center>
        <h2> Table </h2>
        <h3> Create table used for a
        rowspan and colspan </h3>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No.

```
<div class="table">
<table border="5">

    <tr>
        <th> Name </th>
        <th> Age </th>
    </tr>
    <tr>
        <td> Rutvik </td>
        <td rowspan="2"> 15 </td>
    </tr>
    <tr>
        <td> Harshil </td>
        <td> 17 </td>
    </tr>
    <tr>
        <td> Milan </td>
        <td> 21 </td>
    </tr>
    <tr>
        <td> sheilesh </td>
        <td> 25 </td>
    </tr>

    </table>
    </div>
</center>
</body>
</html>
```

Scanned with CamScanner

220403010265O

DATE
PAGE No

[Box Model]

```
<html>
<head>
<style>

    body {
        background-color : skyblue;
    }
    div {
        background-color : Pink;
        width : 300px;
        border : 15px solid black;
        Padding : 50px;
        margin : 20px;
    }
</style>
</head>

<body>
<center>
    <h2 style = "background-color:
                yellow" > Box Model</h
```

 In HTML, the "box model" refers to the layout of elements on a web-page. Each HTML element is considered a box, with content,

Scanned with CamScanner

2204030102650

DATE
PAGE No

Padding, borders and margins which can affect the overall layout of the page.

</body>
</html>

[Form]

```
<!DOCTYPE html>
<html lang="en">
<head>
        <title> Form </title>
<style>

<Body> {
        background-color : skyblue;
        text-align : center;
        color: solid black;
        }

    h2 {
        background-color : red;
        }
</style>
```

Scanned with CamScanner

```
<body>
<h1> The input element </h1>

    <form action = "action-page.php">

        <label for = "fname"> First Name
        </lable>

        <lable for = "last Name : </lable>
        <input type = "text" id = "lname">
        <br> <br>

        <lable for = "Password" > Password
        </lable>
        <input type = "Password" id = "Name"
        <br> <br>

        <input type = "radio" > Genral>
        </input type = "radio" > Male
        <input type = "radio" > Female

        <input type = "Submit"" Value = "Submit"

    </form>

</body>
</html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No.

[Animation]

```
<!DOCTYPE html>
<html>
<head>
<style>

div {
        width: 100%;
        height: 100px;
        background-color: greenyellow;
        position: relative;
        animation: MyFist 5s linear
    }

@ keyframes MyFirst {

        0% {    background-color: blue;
                left: 0px; top: 0px;
        }
        25% {   background-color: red;
                left: 200px; top: 0px;
        }
        50% {   background-color: green;
                left: 200px; top: 200px
        }
        75% {   background-color: yellow;
                left: 0px; top: 200px;
        }
```

Scanned with CamScanner

2204030102650

```
100% { background-color: red;
       left: 0px;, top: 0px;
     }
}

    </style>
</head>
<body>
    <h1> CSS Animation </h1>
    <P> This is CSS Animation </P>
    <div> </div>

</body>
</html>
```

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Scanned with CamScanner

2204030102650

[Boostrap 5]

DATE
PAGE No

* What is Boostrap ?

=> Boostrap is a free front-end frame work for faster and easier web development.

=> Boostrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals image carousels and many other, as well as optional JAVAScript plugins

* First web page with Boostrap 5. *

1. Add the HTML 5 doctype :

=> Boostrap 5 uses HTML elements and CSS properties that require the HTML5 doctype

```
<DOCTYPE html>
<html lang="en">
  <head>
    <title> Bostrap 5 Example </title>
    <meta charset="utf-8" >
  </head>
</html>
```

Scanned with CamScanner

220403010265O

DATE
PAGE No

2. Bootstrap 5 is mobile-First

=> Bootstrap 5 is designed to be responsive to mobile-First styles are part of the core Framework.

=> To ensure proper rendering and touch zooming, add the following <meta> tag inside the <head> element:

<meta name = "viewport"
Content = "width = device-width,
initial-Scale = 1" >

3. Containers

=> Bootstrap 5 also requires a containing element to wrap site Contents.

1. The .container class provides a responsive Fixed width Container.

2. The .container-fluid class provides a Full width Container, spanning the entire width of the

2204030102650

DATE
PAGE No

Container Example

```
<!DOCTYPE Html>
<Html>
<head>
        <title> Bootstrap Container </title>
        <meta charset="utf-8">
        <meta name="viewport" content=
        "width=device-width, initial-
            scale=1">

        <link href="https://cdn.net/npm/
bootstrap@5.2.3/dist/CSS/bootstrap.min.css"
rel="stylesheet">

        <script src="https://cdn.jsdeliver.
net/npm/bootstrap@5.2.3./dist/js/bootstrapt
bundle.min.js"> </script>
    </head>
    <body>

    <div class="Container">
        <h1> My First Bootstrap Page </h1>
    <p> This Part is inside a Container
        class. </p>
    </div>

</body>
</html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No.

Container Fluid Example

```
<!DOCTYPE html>
<html lang="en">
<head>
        <title> Bootstrap Container Fluid
                                    </title>
        <meta charset="utf-8">
        <meta name="viewport" Content=
" width = device-width, initent-scale=1">

        <link href="https://cdn.jsdeliv.
net/npm/bootstrap@5.2.3/dist/ss/bootstrap
min.ess" rel="Stylesheet">

    <script src="https://cdn.jsdeliv
net/npm/bootstrap@5.2.3/dist/js/bootstra
.bundle.min.js"> </script>

    </head>
    <body>
        <div class="Container-Fluid">
            <h1> My First Bootstrap </h1>
            <p> This part is inside a Container
-Fluid class. </p>
        </div>
    </body>
    </html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

* Container Border and Color *

```
<!DOCTYPE html>
<html lang="en">
<head>
        <title> Bootstrap Border and Color
                                    </title>
        <meta charset="utf-8">
        <meta name="viewport" content="
width=device-width, initial-scale=1">

    <link href="https://cdn.jsdeliver.net/
npm/bootstrap@5.2.3/dist/css/bootstrap.min.
css" rel="stylesheet">

    <script src="https://cdn.jsdeliver.net/
npm/bootstrap@5.23/dist/CSS/bootstrap.main
CSS" rel="stylesheet">

    </head>
    <body>
     <div class="Container p-5 my-5 border
                                    ">
    <P> This Container has a border and
some extra padding and margins. </P>
    </div>

    <div class="Container p-5 my-5 bg-dark
text-white">
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

```
<p> This Container has a dark background Color and a white text, and some extra padding margins. </p>
    </div>

    </body>
    </html>
```

* Bootstrap Grid System *

=> Bootstrap's grid system allows up to 12 Columns across the page.

=> If you do not want to use all 12 Column individually, you can group the Columns together to create wider Columns.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title> Bootstrap Grid </title>
    <meta charset="utf-8">
    <meta name="viewport" Content="width=device-width, initial-scale="1"
    <link="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/CSS/bootstrap.min.CSS" rel="Stylesheet">
```

Scanned with CamScanner

2204103010265O

DATE
PAGE No

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js"></script>

<style>
    .row {
        margin-bottom: 50px;
    }
</style>
</head>
<body>

<div class="container-fluid mt-3">
    <h1 style="text-align: center;
               color: green;
               background-color: skyblue;
    RESPONSIVE COLUMNS </h1>

<div class="row">
<div class="col-sm-1 p-3 bg-danger
text-white">1: Col </div>

<div class="col-sm-1 p-3 bg-warning
text-white">1. Col </div>

<div class="col-sm-1 p-3 bg-danger
text-white">1. Col </div>
```

Scanned with CamScanner

220403010265 0

DATE
PAGE No.

```
<div class="col-sm-1 p-3 bg-dark
text-white">1. col </div>

<div class="col-sm-1 p-3 bg-danger
text-white">1. col </div>

<div class="col-sm-1 p-3 bg-dark
text-white">1. col </div>

<div class="col-sm-1 p-3 bg-danger
text-white">1. col </div>

<div class="col-sm-1 p-3 bg-dark
text-white">1. col </div>

<div class="col-sm-1 p-3 bg-danger
text-white">1. col </div>

<div class="col-sm-1 p-3 bg-dark
text-white">1. col </div>

<div class="col-sm-1 p-3 bg-danger
text-white">1. col </div>

<div class="col-sm-1 p-3 bg-dark
text-white">1. col </div>

<div class="row">
```

Scanned with CamScanner

2204030102650

DATE
PAGE No.

```
<div class = "Col-Sm-4 P-3 bg-danger
    text-white text-center">4.Col </div>

<div class="Col-Sm-4 P-3 bg-dark
    text-white text-Center">4.Col </div>

<div class = "Col-Sm-4 P-3 bg-danger
    text-white text-Center">4.Col </div>

</div>

<div Class = "row">
<div Class = "Col-Sm-4 P-3 bg-danger
    text-white text-Center>4.Col </div>

<div Class = "Col-Sm-4 P-3 bg-dark
    text-white text-Center>8.Col </div>
</div>

<div Class = "row">
<div Class = "Col-Sm-6 P-3 bg-danger
    text-white text-Center>6.Col </div>

<div class = "Col-Sm-6 P-3 bg-dark
    text-white text-Center>6.Col </div>
</div>
```

Scanned with CamScanner

2204030102650

```
<div class="row">
<div class="col-sm-12 p-3 bg-danger
    text-white text-center">12. Col </div>
</div>

</div>

</body>
</html>
```

Bootstrap 5 Grid

	XSmall	Small	Medium	Large
Class Prefix	.col-	.col- sm-	.col md-	.col- lg-
Screen width	<576px	>=576px	>768px	>=992

Extra large .col- xl-	XXl .col- XXl-
>=1200px	>=1400px

Scanned with CamScanner

2204030102650

DATE
PAGE No

Three Equal Columns

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title> Boostrapt Equal Columns</title>
    <meta charset="utf-8">
    <meta name="Viewport" content="width=
      initial-scale="1">

    <link href="https://cdn.jsdeliv.net/
npm/bootstrap@5.2.3/dist/js/bootstrap.bundle
min.js">
    <Script Src="https://cdn.jsdeliv.
net/npm/bootstrap@5.2.3/dist/js/bootstrap.
bundle m.n.js"> </script>

</head>
<body>

<div class="Container-Fluid mt-3">
    <h2> three Equal Columns </h2>
    <P> use the .Col elements and
Bootstrap will recognize how many
elements </P>

<div class="row">
<div class="Col bg-danger">.Col
</div>
```

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220403010250

DATE
PAGE No

```
<div class="bg-warning">.Col</div>
<div class="bg-danger">.Col</div>
</div>

</body>
</html>
```

* Three Unequal Columns *

=> Create unequal Columns, you have to use numbers, the following will create a 25% / 50% / 25% split:

```
<div class="row">
    <div class="Col-3 bg-dark">.Col3
    </div>
    <div class="Col-6 bg-warning">Col 6
    </div>
    <div class="Col-3 bg-dark">Col-3
    </div>
```

* Row Cols *

=> The :row-cols-* classes are used to set the number of Column that should appear next to each other

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```
<div class="row row-cols-1">
  <div class="col bg-success">1 of 2</div>
<div class="col bg-warning">1 of 2</div>
<br>

<div class="row row-cols-2">
  <div class="col bg-success">1 of 4</div>
  <div class="col-bg-warning">2 of 4</div>
  <div class="col-bg-success">3 of 4</div>
  <div class="col bg-warning">4 of 4</div>
</div>

<div class="row row-col-3">
  <div class="col bg-dark">1 of 6</div>
  <div class="col bg-danger">2 of 6</div>
  <div class="col bg-dark">3 of 6</div>
  <div class="col bg-danger">4 of 6</div>
  <div class="col bg-dark">5 of 6</div>
  <div class="col bg-danger">6 of 6</div>
</div>
```

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2204030102650

DATE
PAGE No

Nested Columns

Create a two column layout, width another two column inside on of the column.

Cd

```
<div class="row">
    <div class="Col-8">.Col-8
        <div class="row">
            <div class="Col-6">.Col-6</div>
        </div>
    </div>
    <div class="Col-4">.Col-4</div>
</div>
```

Stacked to Horizontal

=>

```
<div class="row">
    <div class="Col-Sm-9">Col-Sm-9</div>
    <div class="Col-Sm-3">Col-Sm-9</div>
</div>

<div class="row">
    <div Class="Col-Sm">Col-sm</div>
    <div class="Col-Sm">Col-Sm</div>
    <div Class="Col-Sm">Col-Sm</div>
</div>
```

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2204030102650

DATE
PAGE No.

[Bootstrap 5 Forms]

* Stacked Form :

All textual <input> and <textarea> elements with class . Form-Control get proper form styling :

Ex. :

```
<Form Action = " /a.php" >
    <div Class = "mb-3 mt-3" >
        <label For=" email" class = "Form-
label " > Email : </lable >
        <input type = " email " name = "em
    </div >

    < div Class = "mb-3" >
        <label For " pwd" Class = " Form-
label" Password : </ lable>
        <input type = " Password" class = "Form
Control " id = "Pwd" Placeholder = " Enter
Password " name = "pswd " >
    </div >

    < div Class = "Form-check mb-3 >
        <label class = "Form - check - label " >
        <input Class = " Form-Check-input"
type = "Checkbox" name = "remember > Remember
                                    </ label >
```

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2204030102650

DATE
PAGE No.

```
</div>
<bottum type = "Submit" class = "btn
btn-dark" > Submit </buttom .
</ Form >
```

* Textarea *

Example :-

```
<label For = "Comment" > Comments: </labe
<textarea class = "Form-Control"
rows = "5" id = "Comment" name = "text"
</textarea>
```

* Form Control size *

The size of .Form-Control input with .Form-Control-lg or .Form-Control-sm

Ex.

```
<input type = "text" class = "Form-Control
Form-Control-lg" Placeholder = "Large input"
<input type = "text" class = "Form-Control"
placeholder = "Normal input" >
<input type = "text" class = "Form-Control
Form-Control-sm" placeholder = "Small in
```

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2204030102650

DATE
PAGE No.

⇒ * Color Picker *

Ex.

<input type="Color" class="Form-Control Form-Control-Color" value="#cc">

⇒ * Toggle Switches

Ex. :

<input Class="Form-Check-Input" type="Checkbox" id="My switch" name="dark Mode" value "Yes" Checked>

<label Class="Form-Check-label" For="My switch">Dark Mode</label>

⇒ * Custom Range

Ex. :

<label For="CustomRange" Class="Form-label">Custom Range</label>

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2204030102650

DATE
PAGE No.

<input type="range" class="Form-Range
id="CustomRange" >

=> Input Group Buttons

Ex. :

```
<div class="input-group mb-3">
    <button class="btn btn-outline-
Primary" type="button"> Basic Button
    </button>
    <input type="text" class=
"Form-Control" Placeholder="Some text">
</div>

<div class="input-group md-3">
    <input type="text class="Form-
Control" Placeholder="Something clever">
    <button class="btn btn-danger"
type="button" > Cancel </button>
</div>
```

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2204030102650

Navigation Bars

Ex.

```
<nav class="navbar navbar-expand-
sm bg-dark navbar-brand">
    <div class="container-fluid">
        <a class="navbar-brand"
            href="#">Logo</a>

<button class="navbar-toggler" type="
button" data-bs-toggle="collapse"="button"
data-bs-target="#mynavbar">

    <span class="navbar-toggler-icon">
    </span>
</button>
    <div class="collapse navbar-collapse"
id="mynavbar">
    <ul class="navbar-nav me-auto">
        <li class="nav-item">
            <a class="nav-link" href=
"Javascript: void(0)">Link</a>
        </li>
            <li class="nav-item">
                <a class="nav-link"
href="Javascript: void(0)">Link</a>
```

Scanned with CamScanner

220403010265O

DATE
PAGE No

```
        </li>
        </ul>
        <form class="d-flex">
            <input class="form-control me
-2" type="text" Placeholder="Search">

        <button class="btn btn-primary"
type="button"> Search </button>
        </form>
      </div>
    </div>
  </nav>
```

* Boostrap 5 Model *

Ex :

```
    <button type="button" class="btn
btn-dark" dark data-bs-toggle="
Modal" data-bs-target="model" data-
bs-target="MyModal">
    open model
    </button>

<div class="model" id="MyModal">
    <div class="Model-dialog">
        <div class="modal-Content">
```

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2204030102650

```
<div class="modal-header">
    <h4 class="modal-title">Modal Heading</h4>

    <button type="button" class="btn-close" data-bs-dismiss="modal"></button>
</div>

<div class="modal-body">
    Modal body....
</div>

<div class="modal-Footer">
    <button type="button" class="btn btn-danger" data-bs-dismiss="modals">close</button>
</div>

</div>
</div>
</div>
```

Scanned with CamScanner

22040301026 50

DATE
PAGE No

Bootstrap 5 Carousel

```
<div id="demo" class="carousel slide"
data-bs-ride="carousel">

    <div class="carousel-indicators">
        <button type="button" data-bs-target
="#demo" data-bs-slide-to="0" class=
"active"> </button>

    <div class="carousel-inner">
        <div class="carousel-item active">
            <img src="la.jpg" alt="Los
Angeles" class="d-block w-100">
    </div>
    <div class="carousel-item">
        <img src="chicago.jpg" alt="
chicago" class="d-block w-100">
    </div>

    <button class="carousel-control-prev"
type="button" data-bs-target="#demo"
data-bs-slide="prev">
        <span class="carousel-control-prev-
icon"></span>
    </button>
</div>
```

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2204030102650

Java Script

Javascript is the world's most popular programming language

Javascript is the programming language of the web.

Javascript is easy to learn

1] Java Script can change HTML Content

```
<!DOCTYPE html>
<html>
<body>

<h2> Javascript <h2>
<P id="demo"> Javascript can change HTML Content. </P>

<button type="button" on Click = 'document.getElementById("demo"). innerHTML = "Hello Javascript"' > Click Me ! </button>

</body>
</html>
```

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2204030102650

DATE
PAGE No

2] Java Script can change HTML Attribute Values

```
<!DOCTYPE html>
<html>
<body>

    <h1> JavaScript </h1>
    <P> JavaScript can change HTML
attribute values. </P>

    <button onclick = "document.getE
lementById ('My Image') Src = ' Fan.gif'">
Turn on the Fan </button>
    <img id = " My Image" Src = " Fan JPG"
style = "width = 100px" >

    <button onclick = " documentById ('My Image'
Src = ' Fan.gif' "> Turn OFF the Fan </butoon

</body>
</html>
```

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2204030102650

DATE
PAGE No.

3] JavaScript can change HTML style (CSS)

```
<!DOCTYPE html>
<html>
<body>

    <h1> JavaScript </h1>
    <P id="demo"> JavaScript can
change HTML Styled of an HTML element</P>

    <button type="button" onclick="
document.getElementById('demo').style.Fontsize
'35px' "> click Me <button>

</body>
</html>
```

4] JavaScript can Hide HTML Elements

```
<!DOCTYPE html>
<html>
<body>

    <h1> JavaScript </h1>
    <P id="demo"> JavaScript can Hide
HTML Elents </P>
```

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220403010265O

DATE
PAGE No

```
<button type="button" onclick="document.
getById('demo').style display='name'">
Click me! </button>

</body>
</html>
```

5) Javascript Can Show HTML Elements

```
<!DOCTYPE html>
<html>
 <body>

    <h2> JavaScript </h2>
    <P> Javascript can show HTML
elements </P>

    <button type="button" onclick="docum
getElementById('demo').style='block'">
Click Me! </button>

  </body>
  </html>
```

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220403010265O

DATE
PAGE No

6] The <Script> Tag

```
<! DOCTYPE html>
<html>
<body>

    <h2> Javascript in body </h2>
    <P id="demo"> </P>

<Script>
document.getElement By Id ("demo"). innerHTML =
"My First JavaScript";
</Script>

</body>
</html>
```

7] External JavaScript

```
<!DOCTYPE html>
<html>
<body>

    <h2> Demo External JavaScript </h2>
    <P id = "demo"> A Paragraph. </P>

    <button type="button" onclick="myfunction()
> Try It </button>
```

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2204030102650

DATE
PAGE No

```
<P id = "demo"/>
<P> This example links to "MyScript.js".
</P>

<script Src="MyScript.js"></script>

</body>
</html>
```

8] Using innerHTML

```
<! DOCTYPE html >
<html>
<body>

  <h1> My Fist web page </h1>
  <P id="demo"></P>

  <Script>
document.getElementById("demo").innerHTML=
5+8 ;
  </script>

</body>
</html>
```

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220403010265O

DATE
PAGE No

9] Using document.write()

```
<!DOCTYPE html>
<html>
<body>

    <h1> Using document.write() </h1>

    <script>
    document.write (5+6);
    </script>

    </body>
    </html>
```

10] Using window.alert()

```
<!DOCTYPE html>
<html>
<body>

    <h1> Using window.alert() </h1>

    <script>
        window.alert (10+10);
    </script>
    </body>
    </html>
```

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2204030102650

DATE
PAGE No

12) Using Console.log()

```
<! DOCTYPE html>
<html>
<body>

<script>
Console.log (15+7);
</script>

</body>
</html>
```

12) JavaScript Print

```
<! DOCTYPE html>
<head>
<body>

<button
onclick="window.print()"> Print this
Page </button>

</body>
</html>
```

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2204030102650

DATE
PAGE No

13) Javascript Statements

```
<!DOCTYPE html>
<html>
<body>

    <h1> Java Script Statements </h1>

    <P id="demo"> </P>

    <script>
let x, y, z;
    x = 10;
    y = 100;
    z = x+y;

document.getElementById("demo").innerHTML=
"The value of z is "+z+":";
    </script>

    </body>
    </html>
```

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2204030102650

DATE
PAGE No

14] JavaScript statements are separated by semicolons.

```
<!DOCTYPE html>
<html>
<body>

    <h2> JavaScript statements </h2>
    <P> JavaScript statements are
separated by semicolons.

    <p id="demo"> </p>

    <Script>
    let a, b, c;
        a = 50;
        b = 50;
        c = a+b;
document.getElementById("demo").innerHTML = c;
    </Script>

    </body>
    </html>
```

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2204030102650

DATE
PAGE No

JavaScript Line Length and Line Breaks

```
<!DOCTYPE html>
<html>
<body>

    <h2> JavaScript Statements </h2>
    <P> The best place to break a
code line is after an operator and comma
    </P>

    <P id="demo"> </P>

  <Script>
document.getElementById("demo").innerHTML
= "Hello Dolly!";
  </script>
  </body>
  </html>
```

JavaScript Code Blocks

```
<!DOCTYPE html>
<html>
<body>

<h2> JavaScript statements </h2>
```

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2204030102650

DATE
PAGE No.

```
<button type="button" onclick="MyFunction()" Click Me! </button>

<p id="demo1"> </p>
<p id="demo2"> </p>

<Script>
Function MyFunction() {
    document.getElementById("demo1").
innerHTML = "Hello! My Name is Rutvik";

    document.getElementById("demo2"):
innerHTML = " im Study in SOU";

}
</Script>

</body>
</html>
```

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2204030102650

DATE
PAGE No

JavaScript Literals

1. Number

```
<! DOCTYPE html>
<html>
<body>

    <h2> JavaScript Numbers </h2>

    <P> Number can be written with
    <P id="demo"> </P>

    <script>
document.getElementById("demo").innerHtml
= 10.500;

    </body>
    </html>
```

2. Strings

```
<! DOCTYPE html>
<html>
<body>

    <h2> JavaScript </h2>
```

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2204030102650

DATE
PAGE No

<P> Strings can be written with double or single quotes. </P>

<P id="demo"> </P>

<script>
document.getElementBy Id("demo").innerHTM = 'Jaduzer';
</script>

</body>
</html>

JavaScript Variables

ex:

<!DOCTYPE html>
<html>
<body>

<H2> JavaScript Variables </H2>
<P> this example, X is defined as a variable Then, X is assigned the value of 11: </P>

<P id="demo"> </P>

Scanned with CamScanner

220403010265 0

DATE
PAGE No

```
<script>
let x ;
 x = 11 ;
document.getById("demo").innerHTML = x;
</script>

</body>
</html>
```

=> Javascript operators

```
<!DOCTYPE html>
<html>
<body>

    <h2> Javascript operators </h2>
    <P> Javascript uses arithmetic
operators values. </P>

    <P id="demo" > </P>
    <script>
document.getElementById("demo"). inner
HTML = (2*10)+10;
    </script>

</body>
</html>
```

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2204030102650

DATE
PAGE No

⇒ Assigning JavaScript Values

```
<! DOCTYPE html>
<html>
<body>

    <h> Assigning javascript Values </h>

    <p id="demo"> </p>
    <Script>
  let x, y;
    x = 5;
    y = 6;
document.getElementId("demo"). innerHTML
= x+y;
    </Script>

  </body>
  </html>
```

⇒ JavaScript Expressions

Ex:

```
<! DOCTYPE html>
<html>
<body>

    <h> JavaScript Expressions </h>
```

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2204030102650

```
<P> Expressions Compute to values </P>

<P id="demo" > </P>
<Script>
document.getElement Id("demo").InnerHTML =
5 * 50;
</Script >

<P id = "demo2" > </P>
<Script>
document.getElement id("demo2").innerHTML
= 10 * 10;
</Script >
</body>
</html>
```

Ex.2

The values can be of various types such as numbers and strings.

```
<!DOCTYPE html>
<html>
<body>

<h> JavaScript Expressions </h>
<P> Expressions Compute to values.
numbers and String </P>
```

Scanned with CamScanner

220403010265O

DATE
PAGE No

```
<P id="demo"> </P>

<Script>
document.getElementBy Id ("demo"). innerHTML=
" Rutvik + " " + "Solanki";
</Script>

</body>
</html>
```

=> JavaScript Keywords let

Ex.

```
<!DOCTYPE html>
<html>
<body>

<h2> Javascript Keywords </h2>
<P> The <b> let </b> Keyword
Creates Variables </h2>

<P id="demo"> </P>
<Script>
let x, y;
x = 50+10;
y = x * 10;
document.getElement By Id("demo"). inner
html = y;
```

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2204030102650

```
</script>
</body>
</html>
```

=> JavaScript Keywords var

Ex.

```
<! DOCTYPE html>
<html>
<body>

    <h1> The var keyword creates
variables </h1>

    <p id = "demo"> </p>
    <script>
var x, y;
    x = 10 + 10;
    y = x * 20;
document.getElementById("demo").innerHTML = y;

    </script>
</body>
</html>
```

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2204030102650

DATE
PAGE No

⇒ Javascript Comments

Ex:

```
<!DOCTYPE html>
<html>
<body>

    <h> Javascript Comments are
Not Executed </h>

    <P id="demo"> </P>
    <script>
  let x;
    x = 12;
// x=13; It will no be executed
document.getElementById("demo").innerHTML = x;
    </script>

</body>
</html>
```

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2204030102650

DATE
PAGE No

⇒ JavaScript variables

1] Var Keyword

```
<!DOCTYPE html>
<html>
<body>

    <h1> In this examples, x, y and
z are variables. </h1>

    <P id="demo">
    <Script>
var x = 5 ;
var y = 6 ;
var z = x + y;
document.getElement By Id("demo").inner.
html = "The value of z is : " + z;
    </script>

    </body>
    </html>
```

2] let Keyword

```
<!DOCTYPE html>
<html>
<body>
```

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2204030102650

DATE
PAGE No.

<h> this Example x, y, and z are Variables <h>

```
<P id="demo"> </P>
<Script>
let x = 5;
let y = 6;
let z = x+y;
document.getElementById("demo").innerHTML = "The value of z is:"+z;
</Script>

</body>
</html>
```

=> Undeclared Variables

```
<!DOCTYPE html>
<html>
<body>

<h1> this Example x, y and z are undeclared Variables </h1>

<P id="demo"> </P>
<Script>
```

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```
x = 5;
y = 6;
z = x+y;
document.getElementById("demo").innerHTML = "The value of z is :" +z;
</script>

</body>
</html>
```

=> JavaScript variables with Const.

```
<!DOCTYPE html>
<html>
<body>

<h1> In this Example, price1, price2;
and total are variables </h1>

<p id="demo"></p>
<script>
Const price = 5;
Const price = 10;
let total = price + price2;
document.getElement By Id("demo").innerHTML = "The total is :" + total;
</script>
</body>
</html>
```

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22040302650

DATE
PAGE No

1) JavaScript Arithmetic using operators

```
<!DOCTYPE html>
<html>
<body>

    <h1> The result of adding 5+2+3 is;
    </h1>
    <P id="demo"></P>

    <Script>
  let x=5+2+3;
document.getElement id("demo").innerHTML=x;
    </Script>

  </body>
  </html>
```

* add strings

```
<!DOCTYPE html>
<html>
<body>

    <h1> The result of adding "John+" "+
" Doe" is: </h1>

    <P id="demo"> </P>
```

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2204030102650

```
<Script>
let x = "John + " " + "Doe"; </P>

<P id="demo"> </P>

<Script>
let x = "Mahendra + " " + "Chauhan";
document.getElementById("demo").HTML =
x;
</Script>

</body>
</html>
```

⟹ Javascrip Dollar Sign $

```
<!DOCTYPE html>
<html>
<body>

<P> The dollar sign is treated
as a letter in Java Script names </P>

<P id="demo">></P>
<Script>
let $$$ = 2
let $My Money = 5;
document.getElementById("demo") innerHTML = $$$ + $My Money;
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

```
</Script>

</Body>
</html>
```

=> JavaScript Underscore (_)

```
<!DOCTYPE html>
<html>
<body>

    <h1> The Underscore is treated
as a letter in java script names </h1>

    <P id="demo"> </P>
  <script>
let _x = 2;
let _100 = 5;
document.getElementById("demo").innerHTML = _x + _100;
    </script>

</body>
</html>
```

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JavaScript Type Conversion

- Converting Strings to Numbers
- Converting Number to String
- Converting Dates to Numbers
- Converting Number to Dates
- Converting Booleans to Numbers
- Converting Number to Booleans

⇒ * Converting Strings to Numbers

```
<!DOCTYPE html>
<html>
<body>

<h2> The Number() method converts
a variable (or value) into a number.</h2>

<P id="demo"> </P>

<Script>
document.getElementById("demo").innerHTML
= Number("3.14") + "<br>" +
Number(Math.PI) + "<br>" +
Number(" ") +
Number("99 88") + "<br>" +
Number("Rutwik") + "<br>";
</body>
</html>
```

Scanned with CamScanner

22040301026 50

DATE
PAGE No.

⇒ Converting Numbers to Strings

```
<!DOCTYPE html>
<html>
<body>

<h2> The string() method converts a number to a string </h2>

<P id="demo"></P>
<script>
let X= 1245
document.getElement By Id ("demo").innerHTML=
X.to string () + "<br>" + 1245 . to string ()
+ (1000+245). toString();
</script>

</body>
</html>
```

⇒ Converting Dates to Numbers.

⇒ The global method number() can be used to convert dates to numbers.

```
d = new Date();
number(d)
```

Scanned with CamScanner

22041030102650

DATE
PAGE No

=> The date Method getTime() does the same

```
d = new Date();
Number(d)
```

=> Converting Dates to strings.

=> The global method String() can convert date to string.

```
String(Date())
```

=> The Date Method toString() does the same.

```
Date().toString()
```

=> Converting Booleans to Numbers

=> The global Method Number() can also convert booleans to Number.

```
Number(False)      // returns 0
Number(True)       // returns 1
```

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2204030102650

DATE
PAGE No

⟹ Automatic Type Conversion

```
<! DOCTYPE html>
<html>
<body>

    <h2> Javascript Type Conversions </h2>
    <p id="demo"> </p>

    <script>
document.getElementById("demo").innerHTML=
    (5+null)+"<br>"+
    ("5"+null)+"<br>"+
    ("5"+2)+"br"+
    ("5"-2)+"br"+
    ("5"*"2")+"br"+
    ("10"/"2")+"br"
    </script>

</body>
</html>
```

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2204030102650

DATE
PAGE No

* => Javascript For Loop

```
Diff
<!DOCTYPE html>
<html>
<body>

    <h2> Javascript For Loop </h2>
    <P id="demo"></P>
    <script>
const cars = ["Rutvik", "Nikunj", "Vivek", "Lavish",
              "Milan"];
  let text = "";
  For (let i=0; i<car.length; i++) {
      text += cars[i] + "<br>";
  }
document.getElementById("demo").innerHTML =
"text";
    </script>

    </body>
    </html>
```

=> Different Kinds of Loops

- For - loops through a block of code a number of times
- For/in loops through the properties of an object.

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- For /of – loops through the values of an iterable object.

- while – loops through a block of code while a specified condition is true.

- do/while – also loops through a block of code while a specified condition is true.

Ex:

```
<!DOCTYPE html>
<html>
<body>

    <h2> JavaScript For loop </h2>
    <P id="demo"></P>
    <Script>
let text = "";
for (let i = 0; i<5; i++) {
        text += "The number is " + i + "<br>";
}
document.getElementById("demo").innerHTML = text;
    </Script>

</body>
</html>
```

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2204030102650

DATE
PAGE No

Javascript For in loop

⇒ Ex.

```
<!DOCTYPE html>
<html>
<body>

<P> The For loop in statement loops through the properties of an object
</P>

<p id="demo"></p>
<Script>
Const person = { Fname : "Rutvik", lname : "Jolenki", age : 19 };
let text = "";
For (let x in person) {
    txt += person[X] + " ";
}
document.getElementById("demo").innerHTML = txt;
</script>

</body>
</html>
```

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2204030102650

DATE
PAGE No

=> For In over Arrays

```
<!DOCTYPE html>
<html>
<body>

    <h2> The For in statement can
loops over array values </h2>

    <p id="demo" > </p>
    <script>
const numbers = [42, 22, 03, 5, 3, 2];
 let txt = "";
 for (let x in numbers ) {
        txt += Number [x] + "br";
}
document.getElement By Id ("demo"). inner HTML
= txt ;
    </Script>

</body>
</html>
```

=> JavaScript For of loops

Ex ;

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2204030102650

DATE
PAGE No.

```
<!DOCTYPE html>
<html>
<body>

        <h2> Java Script For of loop </h2>

        <p id="demo"> </p>
        <script>
const cars = ["BMW", "volvo", "audi"] ;
let text = " ";
for (let x of cars) {
        text += x + "<br>" ;
}
document.getElementById("demo") innerHTML=
text;
        </script>

</body>
</html>
```

=> looping over a string

```
<!DOCTYPE html>
<html>
<body>

    <h2> The for of statement loops through the
values of an iterable object </h2>
```

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2204030102650

```
<P id="demo"></P>
<Script>
let language = "Javascript";
let text = "";
For (let x of language) {
    text += x + "<br>";
}
document.getElementBy Id("demo"). innerHTML=
text;
</Script>

</body>
</html>
```

=> JavaScript while Loop

=> * The while loop

```
<!DOCTYPE html>
<html>
<body>

<h> Javascript while loop </h>
<P id="demo">></P>
<Script>
let text = "";
let i = 0;
while (i<10) {
```

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2204030102650

```
        text += "<br> The Number is +i ;
        i++ ;
    }
document.getElementBy Id("demo").innerHTML =
text;
        </Script>

    </body>
    </html>
```

=> The do while loop :

```
<!DOCTYPE html>
<html>
<body>

    <h2> Javascript Do while loop </h2>
    <P id="demo" >

    <Script>
let text = ""
let i = 0;
do {
    text += "<br> The Number is " + i;
    i++ ;
}
    while (i< 10;
document.getElement By Id("demo").inner
HTML = text;
```

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2204030102650

```
</script>

</body>
</html>
```

=> Conditional statements

if, else, else if, switch

=> The if Statements

```
<!DOCTYPE html>
<html>
<body>

    <h2> Display "Friends Forever"</h2>
    <p id="demo"> Friends Forever!</p>
    <script>
if (new Date().getElementHours() < 18){
  document.getElementId("demo").innerHTML
= "Friends Forever"! ;
}

    </script>

</body>
</html>
```

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2204030102650

DATE
PAGE No

=> if else statement

```
<!DOCTYPE html>
<html>
<body>

    <h> Javascript if... else </h>
    <P id="demo" ></P>
    <Script>
const hour = New Date().getHours();
let greeting;

  if (hour <18) {
        greeting = "Good day";
  } else {
        greeting = "Good evening";
  }
document.getElementById("demo").innerHTML = greeting;
    </Script>

</body>
</html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

=> The if, else if, else statement

```
<!DOCTYPE html>
<html>
<body>

    <h2> Java Script if, else if, else
         statement </h2>
    <P id="demo"> </P>
    <Script>
Const time = new Date().getHours();
let greeting;
if (time < 10) {
    greeting = "Good morning";
} else if (time < 20) {
    greeting = "Good day";
} else {
    greeting = "Good evening";
}
document.getElementId("demo").innerHTM
= greeting;

    </script>

</body>
</html>
```

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2204103010265 0

JavaScript Function

=> A JavaScript Function is a block of code designed to problem a perform a particular task.

ex :

```
<!DOCTYPE html>
<html>
<body>

    <h1> This a function which performs a calculation, and returns the result </h1>

    <P id="demo"> </P>
    <script>
Function MyFunction (P1,P2) {
    return P1 * P2;
}
document.getElementById("demo").innerHTML
= MyFunction (4,3);
    </ script>

</body>
</html>
```

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2201030102650

DATE
PAGE No

* Function Return *

when JavaScript reaches a return statement, the function will stop executi

ex.

```
<!DOCTYPE html>
<html>
<body>

<P> Call a function which perfor
Calculation the result </P>

<P id="demo"></P>
<script>
var x = myFunction(4,3);
document.getElementById("demo").innerHTML = x;

function myFunction(a,b){
    return a*b;
}

</script>

</body>
</html>
```

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2204030102650

* Function Used as variable values *

```
<!DOCTYPE html>
<html>
<body>

    <h2> JavaScript Function
Used as Variable Values </h2>

    <P id="demo"></P>
    <script>
document.getElementById("demo").innerHTML = " the temperature is " + toCelsius(77)
+" Celsius";

    Function toCelsius (Fahrenheit) {
        return (5/9) * (Fahrenheit-32);
}
    </script>
    /
</body>
</html>
```

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2204030102650

DATE
PAGE No

* Local variables *

Variables declared within a Javascript Function Local to the Function

ex.

```
<!DOCTYPE html>
<html>
<body>

    <h> outside myFunction() CarName
is undefined </p>.

    <p id="demo1"> </p>
    <p id="demo2"> </p>

<Script>
myFunction();

Function myFunction() {
    let CarName + " " + CarName;
}
document.getElement By"id" + "demo" CarName;.
innerHTML = typeof CarName;
    </Script>
</body>
</html>
```

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2204030102650

DATE
PAGE No

JavaScript HTML DOM Events

Reacting to Events

A JavaScript can be executed when an event occurs, like when a user clicks on HTML element.

HTML event :

- when a user clicks the mouse
- when a web page has loaded
- when an image has been loaded
- when the mouse over an element
- when an input field is changed
- when an HTML form is submitted
- when user strokes a key

ex.

```
<!DOCTYPE html>
<html>
<body>

    <h2> Javascript Events </h2>
    <h2 onclick = "changeText(this)" >
click on this text ! </h2>
```

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2204030102650

```
<script>
Function changeText(id) {
        id.innerHTML = "Ooops!";
}

</script>

</body>
</html>
```

Assign Events Using the HTML DOM

Ex.

```
<!DOCTYPE html>
<html>
<body>

<h> Click "Try it" to execute
the displaydate() Function </h>

<button id="myBtn">try it</button>
<script>
document.getElementById("myBtn").onclick =
displayDate;

function displayDate() {
document.getElementById("demo").innerHTML = Date();
}
```

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2204030102650

DATE
PAGE No

```
</script>

</body>
</html>
```

=> The onchange Event

ex:

```
<!DOCTYPE html>
<html>
<body>

        <h2> Javascript HTML event </h2>
Enter your name : <input type = "text"
id = "Fname" onchange = "uppercase()" >

    <Script>
Function Uppercase() {
    Const x = document.getElementById("Fname")
    x.value = x.value.toUpperCase();
}

    </script>

</body>
</html>
```

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220403010 2850

DATE
PAGE No

⟹ The onmouseover and onmouseout Events

ex.

```
<!DOCTYPE html>
<html>
<body>

    <div onmouseover="mOver(this)"
onmouseout="mout(this)"
style="background-color:#D94A38; width:
120px; height:20px; Padding:40px;">
Move over Me</div>

    <Script>
Function mover(obj) {
    obj.innerHTML = "Thank You"
}
    Function mOut(obj) {
    obj.inner HTML = "Mouse over Me"
}

    </Script>

</body>
</html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

jQuery

* jQuery :-

jQuery is a lightweight "write less, do more" JavaScript library.

=> The jQuery library contains:

- HTML / DOM manipulation
- CSS manipulation
- HTML event methods
- Effects and animation
- AJAX
- Utilities

=> Many of the biggest companies on the web use jQuery, such as:

- Google
- Microsoft
- IBM
- Netfix

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2204030102650

DATE
PAGE No.

* jQuery CDN *

=> google CDN

```
<head>
    <Script Scr="https://ajax.googleapis.com/ajax/libs/3.6.3/jquery.min.js"></Script>
</head>
```

* jQuery Syntax *

=> The jQuery Syntax is tailor-made for selecting HTML elements and performing some action on the elements(s).

Basic Syntax is: $(selector).action()

Ex.

$(this).hide() - hides the current element

$("p").hide - hides all <p> element

$(".test").hide() - hides all element with class = "test"

$("#test").hide() - hides the element with id = "test".

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2204030102650

DATE
PAGE No

jQuery Selectors

ex.

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>

    <script>
$(document).ready(function() {
        $("button").click(function() {
            $("p").hide();
    });
});

    </script>
    </head>
    <body>

        <p> this is a paragraph </p>
        <p> This is another paragraph</p>
<button> click me to hide paragraphs
                </button>
</body>
```

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2204030102650

DATE
PAGE No.

=> The #id Selector

ex.

```
<!DOCTYPE html>
<html>
<head>

<script src = "https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"> </script>

<script>
$(document).ready(function(){
    $("button").click(function(){
        $("#test").hide;
    });
});
</script>
</head>
<body>

<p> This is a heading </p>
<p id="test"> This is another heading </p>
<button> click me </button>

</body>
</html>
```

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2204030102650

DATE
PAGE No.

⇒ The .Class Selector

```
<!DOCTYPE html>
<html>
<head>
<script Src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3./jquery.min.js"> </script>

<script>
$(document.ready(Function() {
    $("button").click(Function() {
        $("test").hide();
    });
});
</script>
</head>
<body>

<h2 Class="test">This is a heading</h2>
<P Class="test">This is paragraph</P>

<button> Click me </button>

</body>
</html>
```

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2204030102650

DATE
PAGE No

jQuery Event

DOM Events :

Mouse Event	Keyboard Event	Form Event	Document/window Event
Click	Keypress	Submit	load
dbclick	Keydown	change	resize
mouseenter	keyup	Focus	scroll
mouseleave		blur	unload

=> Event Methods

1) Click ()

The Click () method attaches an event handler function to an HTML element.

ex-

```
<!DOCTYPE html>
<html>
<head>
  <script SRC="http://ajax.googleapis.com/ajax/libs/jquery/3.6.5/jquery.min.js"></script>
```

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2204030102650

```
<Script>
$(document).ready(function() {
    $("p").click(function() {
        $(this).hide();
    });
});
</Script>
</head>
<body>

<p> If you click on me, I will disappear. </p>
<p> Click me away! </p>
<p> Click me too! </p>

</body>
</html>
```

2] dbclick()

The dbclick() method attaches an event handler function to an HTML element

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2204030102650

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/ajax/libs/jquery/3.6.3/jquery.min.js"></script>

<script>
$(document).ready(function() {
    $("p").dblclick(function() {
        $(this).hide();
    });
});
</script>
</head>
<body>

<P>Click me away!</P>
<P>Click me too!</P>

</body>
</html>
```

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2204030102650

DATE
PAGE No

3] mouseenter()

The mouseenter() method attaches an event handler function to an HTML element.

ex.

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js">
</script>

    <script>
$(document).ready(function) {
    $("#p1").mouseenter(function() {
        alert("You entered P1!");
    });
});
    </script>
    </head>
<body>

    <p id="p1"> Enter this paragraph
                </p>

</body>
</html>
```

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2204030102650

DATE
PAGE No

4) mousedown()

The mousedown() method attaches an event handler function to an HTML element.

ex.

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>

    <script>
    $(document).ready(function() {
        $("#p1").mousedown(function() {
            alert("Mouse down over p1!");
    });
});
    </script>
    </head>
    <body>

<p id="p1">This is a paragraph.</p>

</body>
</html>
```

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2204030102650

DATE
PAGE No.

5) mouseup()

The mouseup() method attaches an event handler function to an HTML element.

ex.

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"> </script>

    <script>
$(document).ready(function() {
    $("#p1").mouseup(function() {
        alert("Mouse up over p1!");
    });
});
    </script>
    </head>
<body>

    <p id="p1">This is a Red car </p>

</body>
</html>
```

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22040 30102650

DATE
PAGE No.

6] hover()

The hover() method takes two functions and is a combination of the mouseenter() and mouseleave() methods.

Ex.

```
<!DOCTYPE html>
<html>
<head>
    <script src = "https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"> </script>

    <script>
    $(document).ready(function() {
        $("#p1").hover(function() {
            alert("You entered p1!");
        },
        function() {
            alert("Bye! You now leave p1!")
        });
    });

    </script>
    </head>
<body>
```

Scanned with CamScanner

220403102650

DATE
PAGE No.

```
<p id="p1"> this is a paragraph </p>

</body>
</html>
```

7] Focus() / blur()

The focus() method attaches an event handler function to an HTML form field

ex.

```
<!DOCTYPE html>
<html>
 <head>
      <script src="https://ajax.google-
apis.com/ajax/libs/jquery/3.6.3/jquery
min.js">

    <script>
    $(document).ready(function() {
      $("input").focus(function() {
        $(this).css("background-color",
        "yellow");
    });
      $("input").blur(function() {
        $(this).css("background-color",
        "green");
      });
    });
```

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```
</script>
</head>
<body>

Name : <input type="text"
name="Fname"> <br>
Email : <input type="text"
name="Email">

</body>
</html>
```

8] The on() Method

The on() method attaches one or more event handlers for the selected elements.

Ex:

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.
googleapis.com/ajax/libs/jquery/3.6.3/
jquery.min.js"> </script>
```

Scanned with CamScanner

22040301026 50

DATE
PAGE No.

```
<script>
$(document).ready(function() {
    $("p").on("click", function() {
        $(this).hide();
    });
});
</script>
</head>

<body>

    <p> If you click on me, I will
disappear </p>
    <p> click me away! </p>
    <p> click me too! </p>

</body>
</html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

jQuery Effects

* jQuery Effect- Hide and Show

with jQuery, you can hide and show HTML element with the hide() and show() methods :

ex.

```
<!DOCTYPE html>
<html>
<head>
        <script src="https://ajax.google
apis.com/ajax/libs/jquery/3.6.3/jquery.
min.js"></script>
        <script>
    $(document).ready(function(){
        $("#hide").click(function(){
            $("p").hide();
    });
        $("#show").click(function(){
            $("p").show;
        });
    });
    </script>
    </head>
    <body>
```

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2204030102650

```
<P> If you Click on the "Hide" button.
J will disappear. </P>

<button id="hide"> Hide </button>
<button id="show"> Show </button>

</body>
</html>
```

* jquery Fading Method

- FadeIn()
- Fadeout()
- FadeToggle()
- FadeTo()

1] FadeIn()

Ex.

```
<!DOCTYPE html>
<html>
<head>
    <Script Src="https://ajax.googleapis.
com/ajax/libs/jquery/3.6.3/jquery.min.
js"> </Script>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

```
<script>
$(document).ready(function() {
    $("button").click(function() {
        $("#div1").fadeIn();
        $("#div2").fadeIn("slow");
        $("#div3").fadeIn(3000);
    });
});
</script>
</head>
<body>

<button> Click to Fade In boxes
</button><br>
<div id="div1" style="width:80px;
height; display:none; background-Color
: red;"></div>

<div id="div2" style="width:80px;
height:80px; display:none; background
Color: yellow;"></div>

<div id="div3" style="width:80px;
hight:80px; display:none; background
Color: gray;"></div>

</body>
</html>
```

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2204030102650

DATE
PAGE No.

2] FadeOut ()

ex.

```
<!DOCTYPE html>
<html>
    <script src="https://ajax.google.com/
ajax/libs/jquery/3.6.3./jquery.min.js">
</script>

    <script>
      $(document).ready(function() {
          $("button").click(function() {
            $("#div1").fadeout();
            $("#div2").fadeout("slow");
            $("#div3").fadout(3000);
    });
});
    </script>
  </head>
  <body>

    <button> Click to fade out boxes </button>
<div id="div1" style="width:80px; height:
  80px; background-color: red"; </div>

    <div id="div2" style="width:80px; height
    80px; background-color: yellow"; >
    </div>
```

Scanned with CamScanner

2204030102650

```
<div id="div3" style="width: 80px;
height: 80px; background-colour: green;
></div>

</body>
</html>
```

FadeTo()

ex.

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.
com/ajax/libs/jquery/3.6.3/jquery.min
js"> </script>

<script>
$(document).ready(function() {
    $("button").click(function() {
        $("#div1") FadeTo("slow",0.15);
        $("#div") FadeTo("slow",0.4);
        $("#div") FadeTo("slow",0.7);
    });
});
</script>
</head>
<body>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No.

```
<button> Click to fade boxes </button><br>

<div id="div1" style="with: 50px; height: 50px;
background-color: skyblue;"> </div><br>

<div id="div2" style="with: 50px; height: 50px;
background-color: red;"> </div><br>

<div id="div3" style="with: 50px; height: 50px;
background-color: yellow;"></div><br>

</body>
</html>
```

* jQuery Sliding Methods *

- slideDown()
- slideUp()
- slideToggle()

⇒ slideDown()

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://asix/goalcapis.
com/ajax/libs/jquery/3.63/jquery.min.
js"> </script>
```

Scanned with CamScanner

220403010265O

DATE
PAGE No

```
<script>
$(document).ready(function(){
    $("#Flip").click(function(){
        $("#Panel").slideDown("slow");
    });
});
</script>
<script>
<style>
#panel, #Flip {
    Padding: 5px;
    text-align: center;
    background-color: #eeecc;
    border: solid 1px #c3c3c3;
}
# panel {
    Padding: 50px;
    display: None;
}
</style>
</head>
<body>

<div id="Flip">click to slide down panel</div>

<div id="panel">Hello world!</div>

</div></body>
</html>
```

Scanned with CamScanner

2204030102650

DATE
PAGE No.

=> SlideUp()

ex.

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.com/
libs/jquery/3.6.3/jquery.min.js"></script>

    <script>
    $(document).ready(function() {
        $("#Flip").click(function() {
            $("#Panel").slideup("Slow");
    });
});
    </script>
    <style>
#Panel, #Flip {
        padding : 5px;
        text-align : center;
        background-color : #eeeee;
        border : solid 1px #c3c3c3;
}
#Panel {
        padding : 50px;
}
</style>
</head>
```

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2204030102650

DATE
PAGE No.

```
<body>

    <div id="Flip">Click to slide up</div>
    <div id="Panel">Hello world! </div>

</body>
</html>
```

=> Slide Toggle() Method

ex.

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>

    <script>
$(document).ready(function() {
    $("#Flip").click(function() {
        $("#Panel").slideToggle("slow");
    });
});
    </script>
```

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2204030102650

```
<style>
#panel, #Flip {
        padding : 5px;
        text-align : center;
        background-color : #eseecc;
        border : solid 1px #c3c3c3;
}

    #panel {
        Padding : 50px;
        display : none;
}
  </style>
  </head>
  <body>

  <div id="Flip">Click to the panel
                  down up </div>
  <div id="panel">Hello world! </div>

</div><body>
    </html>
```

* jquery stop method *

ex-

Scanned with CamScanner

2204030102650

DATE
PAGE No.

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.
com/ajax/libs/jquery/3.6.3/.min.js">
</script>

    <script>
    $(document).ready(function() {
        $("#flip").click(function() {
            $("#panel").slideDown(5000);
    });
        $("#stop").click(function() {
            $("#panel").stop();
    });
});
    </script>
    <style>
    #panel, #flip {
        padding : 5px;
        font-size : 15px;
        text-align : center;
        background-color : #555;
        color : white;
        border : solid 1px #666;
        border-radius : 3px;
    }

    #panel {
        padding : 50px;
        display : none;
```

Scanned with CamScanner

2204030102650

DATE
PAGE No

```
}
</Style>
</head>
<body>

<button id="stop"> stop sliding </button>

<div id="Flip"> Click to slide down panel
</div>

<div id="panel"> Hello world! </div>

</body>
</html>
```

* jQuery Callback Function *

ex.

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://ajax.googleapis.
com/ajax/libs/jquery/3.6.3/jquery.min.
js"> </script>

<script>
$(document).ready(function() {
    $("button").click(function() {
```

Scanned with CamScanner

220403010265O

DATE
PAGE No

```
$("p").hide("slow", function() {
    alert("The paragraph is Now
            hidden");
        });
    });
});
    </script>
  </head>
  <body>

    <button> Hide </button>

<P>This is a paragraph with little
  content </P>

  </body>
  </html>
```

* jQuery Method Chaining *

```
<!DOCTYPE html>
<html>
<head>
        <script src="https://ajax.google
apis.com/libs/jquery/3.6.3/jquery.min.
js"> </script>
```

Scanned with CamScanner

220403026 50

DATE
PAGE No.

```
<Script>
$(document).ready(Function) {
    $("button").click(Function) {
        $("#p1").css("color","red")
            .slideup(2000)
            .slidedown(2000);
    }};
});
</script>
</head>
<body>

<p id="p1">jquery is fun!</p>

<button> click me </button>

</body>
</html>
```

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