CSS = Cascading Stylesheet :

[1] Types of CSS & Preferences :-

(i) Inline CSS
(ii) Internal CSS
(iii) External CSS

(i) Inline CSS :-

Syntax :- <P style = "background-color : red ;"> Hello <\P>

Ex :-
```
<html>
<head>
    <title> Inline <\title>
<\head>
<body>
    <P style = " color : red ;" > A Red is Angry
        defined . <\P>
<\body>
<\html>
```

(ii) Internal CSS :-

Syntax :- .class {
body { background-color : blue ; }

Ex :-
```
<html>
<head>
    <title> Internal <\title>
<style>
```

```
h1 {colar : Red;}
p {colar : blue;}

<style>
<head>
<body>
    <h1> Hello <h1>
    <p> Good Morning <p>
<body>
<html>
```

(iii) External CSS :-

Syntax :- <link rel="stylesheet" href="styles.css">
.class { colar : blue; }

Ex :-

```
<html>
<head>
    <title> External css <title>
    <link rel = "style sheet" href = "styles.css">
<head>
<body>
    <h1> This is heading <h1>
    <p> This is paragraph <p>
<body>
<html>
```

styles.css :

```
h1 { Colour : violet; }
p { color : Red; }
```

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[2] Working with CSS Selectors :-

(i) element selector
(ii) id selector
(iii) class selector
(iv) universal Selector
(v) grouping selector

(i) element selector :-

Syntax :-

```
p { colour : Red ;
    Text - align : Center ;
  }
```

Ex :-

```
<html>
<head>
        <title>element Selector </title>
<style>
<h p {
        text - align : center ;
        colour : blue ;
      }
</style>
</head>
<body>
        <p> This is a Paragraph </p>
</body> <p id = " Para" > Hell </p>
</html> </body>
        </html>
```

(ii) id Selector :-

syntax : #P1 { color : Red ;}

Ex:-
```
<html>
<head>
    <title> id </title>
<style>
    #per {

</style>
</head>
<body>
    <p id = "per"> me say's : hello </p>
</body>
</html>
```

(iii) class selector :-

syntax :- .P1 { color : Red ;}

Ex:-
```
<html>
<head>
    <title> class </title>
<style>
    .P12 { text-align : center ;
           color : Red ; }
</style>
</head>
    <body>
        <p class = " P12 " > This is paragraph
</body>
</html>
```

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(iv) universal Selector :

Syntax :- * { Text-align : center ; }

Ex :-
```
<html>
<head>
    <title> universal </title>
<style>
    * { color : Red ;
        font-weight : ~~cent~~ bold ;
        Text-align : right }
</style>
</head>
<body>
    <h1> Hello world </h1>
    <p> This is paragraph </p>
</body>
</html>
```

(v) Grouping Selector :

syntax : h1, p { colour : Red ; }

Ex :-
```
<html>
<head>
    <title> Grouping </title>
<# <style>
    h1, p { color : Red ;
            margin : 0 px ; }
</style>
</head>
<body>
```

```
    <h1> hello World </h1>
    <P> This is para.</P>
</ body>
</ style>
</ html>
```

[3] Gray layout & Box Model :-

(i) gray layout :-

Ex :-

```
<html>
  <head>
      <title> gray layout </title>
  <style>
      { font-size : 20 px ;
        font-weight : bold ; }
  # R1 { back ground-color : gray ; height : 50 px ;
        width : 98 ; padding-top : 20 px ;
        padding-left : 0 % ; margin-left : 10px ;}

  # R2 / # R5 { background-color : gray ; height : 30 px ; width : 100
        Padding-top : 20px ; Text-align : center ;
        margin : 10 px ; }

  # R3 { background-color : gray ; height : 30 px ;
        width : 100 % ; text-align : center ;
        padding-top : 10 px ; margin-bottom : 10 px ; }

  # R4 { height : 600 px ; width : 100 % ; margin-bottom
        margin-bottom : 10 px ; }
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```
#R4C1 {width : 28% ; margin-right : 2% ;}
#R4C2 {width : 70% }
# R4 div { background-color: gray ; float:left;
                height : 30 px ; Padding-top: 30 px;
                text-align : center;
        }

<Style>
<head>
  <body>
    <div id="r1"> Logo </div>
    <div id="r2"> Nevigation </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>
```

(ii) Box-Model :-

```
<html>
<head>
<style>
  div {
        background-color : lightgrey ;
        width : 300 px ;
        border : 15 px solid green;
        Padding : 50 px ;
        margin : 20 px ;
      }
<Istyle>
<Ihead>
```

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```
<body>
  <h1> The Box Model</h2>

  <p> The css box model is essentially a box.

  <div> This text is the content of the box.
        sunt in culpa qui officia deserunt mollit
        anim id est laborum.
  </div>
</body>
</html>
```

[4] video position effect :-

Syntax :-

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

Ex :-

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

[5] IMAGE - hover effect :-

Ex :-
```
<html>
<head>
<style>
 .container {
        position : relative ;
        width : 50%
        }
 .image { width : 100% ;
        display : block ;
        height : auto ; }

 .overlay { position : absolute ;
        top : 0 ;
        bottom : 0 ;
        left : 0 ;
        right : 0 ;
        height : 100% ;
        width : 100% ;
        opacity : 0 ;
        transition : .5s ease ;
        background-color : dodgerblue ; }

 .container : hover .overlay { opacity : 1 ; }
 .text { color : white ;
        font-size : 20 px ;
        position : absolute ;
        top : 50 %
        left : 50 %
 -webkit-transform : translate (-50% , -50%) ;
 -ms-transform : translate (-50% , -50%) ;
 transform : translate (-50% , -50%) ;
```

```
text-align : center ;
}
</style>
</head>
<body>
    <h2> Fallow </h2>
    <P> Image hover </P>
    <div class = " container " >
        <img src = " img_avatar . png " alt = " Avatar "
                                        class = " overlay "
        <div class = " text " > Hello world </div>
        </div>
        </div>
        </body>
        </html>
```

[6] Font awesome :-

```
<html>
<head>
    <title> Font awesome </title>
<link rel = " stylesheet " href = " https : // cdnjs . cloudflare .
    com / ajax / libs / font - awesome / 4 . 7 . 0 / css / fontawesome
    min . css " >
</head>
<body>
    <h1 > fa fa-address-book </h1>
    <i class = " fa fa-address-book " ></i>
    <i class = " fa fa-address-book " style = " font-size :
    <i class = " fa fa-address-book " style = " font-si
                                    48 px ; color : red
    <br>
    <P> User on button : </P>
```

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```
<button style="font-size : 24 px"> Button
<i class="fa fa-address-book"></i>
</button>
<p> unicode : </p>
  <i class <i style="font-size : 24 px" class="fa">
        &#x f2 b9 ; </i>
    </body>
    </html>
```

[7] Parallax effect :-

Ex :-

```
<html>
<head>
<style>
 .parallax {
        background-image : url("img_parallax.jpg");
        min-height : 500px ;
        background-attchment : fixed ;
        background-position : center ;
        background-repeat : no-repeat ;
        background-size : cover
 }
</style>
</head>
<body>
  <p> Scrow up and down this page </p>
  <div style="height : 1000px ; background-color : red ;">
    Scroll up and down this page to see the
    parallax scrolling effect.
  </div>
</body>
</html>
```

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[1] Responsive designing :-

```
<html>
<head>
<style>
  * { box-sizing : border-box ; }
  .menu {
          float : left ;
          width : 20% ;
        }
  .menuitem {
          Padding : 8 px ;
          margin-TOP : 7 Px ;
        border-bottom : 1 Px solid #f1f1f1 ;
        }
        .main {
          float : left ;
          width : 60% ;
          Padding : 0 20Px ;
          overflow : hidden ;
          }
  .right {
          background-color : blue ;
          float : left ;
          width : 10 Px 15 Px ;
          Padding : 7 Px ;
        }
  @media only screen and (max-width : 500Px)
    { .menu , .main , .right { width : 100% ; } }
</style>
</head>
```

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```
<body style="font-family : verdana ;">
<div style = "background-color : #ffffff ; padding : 15 px ;">

        <h1> Hell Bootstrap </h1>
        <h3> what is Bootstrap ? </h3>
</div>
  <div style = "overflow: auto">
  <div class = "menu">
  <div class = "menuitem"> The walk
  </div>
    <div class = "menu item"> Hello </div>
    <div class = "menu item"> world </div>
    <div class = "menu item"> Hellowoorld </div>
  </div>
        <div class = "main">
          <h2> The walk </h2>
          <P> The khali @ John Cena </P>
<img <img src = " 1.png" style=" width: 100% " />
  </div>
        <div class = "right" >
        <h2> what ? </h2>
        <P> cinque Terre comprises five villages: </P>
        <h2> where ? </h2>
        <P> cinque Terre comprises </P>
        <h2> Price ? </h2>
        <P> The walk is free </P>
      </div>
      </div>
<div style = " background-color : red ; text-align : center;
 Padding : 10 px ; margin-top: 70 px ; font-size : 12 px"
        Hello kese ho aap log ! </div>
</body>
</html>
```

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[2] BootStrap Grid :-

```
<html>
<head>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.
dist/css/bootstrap.min.css" rel="stylesheet">
<body>
    <div class="container-fluid mt-3">
      <h1> Basic Grid </h1>
      <p> Resize the browser window </p>
      <p> The first, second and third row will
       automatically stack on top of each other when
       the screen is less than 576px wide </p>
  ~~<tr~~
  <div class="row">
    <div class="col-sm-6 bg-Primary text-white">50% </div>
  ~~</div> <br~~
      <div class="row">
        <div class="col-sm-6 bg-primary dark text-white">
    50% </div> ~~</div> <br~~
  <div class="row">
  <div class="col-sm-4 bg-Primary text-white">33.33%
    </div> ~~</div> <br~~

      <div class="row">
  <div class="col-sm-4 bg-dark text-white">33.33%
    ~~</div> </div> <br~~
  <div class="row">
  <div class="col-sm-4 bg-Primary text-white">33.33%
    </div> </div> <br>
```

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```
<div class="row">
<div class="col-sm bg-Primary text-white">25%</div>
<div class="col-sm bg-dark text-white">25%</div>
<div class="col-sm bg-Primary text-white">25%</div>
<div class="col-sm bg-dark text-white">25%</div>
</div><br>
<div class="row">
<div class="col bg-primary text-white">25%</div>
<div class="col bg-dark text-white">25%</div>
<div class="col bg-Primary text-white">25%</div>
<div class="col bg-dark text-white">25%</div>
</div>
</div>
</body>
</html>
```

[3] Bootstrap Form :-

```
<html>
<head>
    <title> Bootstrap form </title>
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
</head>
<body>
    <div class="container">
        <h2> Form </h2>
        <form>
            <div class="form-group">
                <label for="email">Email:</label>
                <input type="email" class="form-control" id="email" placeholder="Enter email">
            </div>
```

```
<div class="form-group">
    <lable for="Pwd">Password:</lable>
    <input type="Password" class="form-control id="Pwd"
     Place holder="Enter Password" name="Pwd">
    </div>
<div class="checkbox">
        <lable><input type="checkbox" name="remember">
         Remember me </lable>
    </div>
<button type="Submit" class="btn btn-default">Submit</
 </button>
  </form>
  </div>
 </body>
 </html>
```

[4] Carousel :-

```
<html>
<head>
<link rel="Style sheet" href="https://maxcdn
 bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.cs
</head>
<body>
    <div Class="Container">
     <h2> Carousel Example </h2>
  <div id="my carousel" Class="carousel slide"
   data-ride="carousel">
      <ol Class="carousel-indicators">
        <li data-target="#my Carousel" data-slide-to=
 Class="active"> </li>
```

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```
<li data-target = "#myCarousel" data-slide-to ="1"></li>
<li data-target="#myCarousel" data-slide-to="2"></li>
</ol>
    <div class="carousel-inner">
      <div class = "item active">
          <img src ="1.png" alt = "Los Angeles"
                style="width: 100%;">
          <div class ="carousel-caption">
            <h3> Los Angeles </h3>
            <p>LA is Always funny! </p>
    </div>
    </div>
      <div class = "item">
          <img src="c.jpg" Alt ="chicago" style="width:
                                100%;">
    <div class = "carousel-caption">
                <h3> Chicago </h3>
</div>
</div>
      <div class="item">
          <img src = "3.png" style="width: 100%;"
      <div class = "carousel-caption">
      <h3> newyork </h3>
        <p> we love NY </p>
</div> </div> </div>
<a class="left carousel-control" href="#myarousel"
data-slide="Prev">
  <span class="glyphicon glyphicon-chevron-left"></span>
  <span class = "sr-only"> Previous</span>
  </a>
<a class="right carousel-control" href="#myarousel" data-slide
="next">
  <span class="glyphicon glyphicon-chevron-right"></span>
```

JavaScript

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[1] Js use :-

```
<!Doctype html>
<html>
<body>
 <h2> My first Js Program </h2>
<button type = " button" on click = " Document.getElement By Id ('demo'). inner HTML = Date ();">
 Click me to Display Date and time. </button>

<p id = "demo"> </p>
 </body>
 </html>
```

[2] Js use :-

```
<!Doctype html>
<html>
<body>
 <h2> What can Js do ? </h2>
<p id = " Ex:"> Js can html change. </p>

<button type = " button" on click = " document.getElement By Id ('Ex:'). inner HTML = " Hello world ") Click me
</button>

</body>
</html>
```

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[3] JS Where :-

```
<!Doctype html>
<html>
<body>

<h2> What can JS do ? </h2>
<p> Javascript can change html attribute value </p>

<p> In this case JS changes the value of src (source) attribute of an image. </p>

<button onClick=" document.getElementBy Id ('myImage').src = 'pic_circle.gif' "> Click to go </ button>

<img id = "MyImage" src = "circle.gif"
style = "width : 100px" >

<button onclick = " document.getElement By Id ('myImage').src = 'circle.gif' "> Click to stop
</button>

</body>
</html>
```

[4] output:-

```
<!Doctype html>
<html>
<body>
        <h2> what can JS </h2>
<p id="Ex."> JS can change ~~html~~ html</p>

<button type="button" on click="document.getEle
  ById('Ex.').style.fontsize='35px'"> Click me
</button>
</body>
</html>
```

[5] JS in Hidden:-

```
<!Doctype html>
<html>
<body>
        <h2> Hidden the items </h2>
        <p id="Ex."> I will go in html </p>
<button type="button on click="document.getElem
  ById('Ex.').style.display='none'> Click me
</button>
</body>
</html>
```

[6] Contain :-

```
<!Doctype html>
<html>
  <body>
        <h2> This is contain is block </h2>
          <p id = "Ex." style = display : none ; >
            Hello world </p>
<button type = " button"  onclick = "doctype" document.get
  Element By Id ('Ex.') .style.display = 'block' >
    Try it </button>

</body>
</html>
```

[7] Js in use Script tag in head :-

```
<!Doctype html>
<html>
<head>
 <script>
        function myfun ( ){
                document.getElement By Id ("Ex.")
                .innerHTML = " Change Paragraph " ;
                }

 </script>
 </head>
        <body>
          <h2> Using Script tag </h2>
          <p id = "Ex." > Hello world </p>
<button type = " button"  on click = " myfunc ">
  Click me ! </button>
```

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

[8] Using Script tag in body :-

```
<!doctype html>
<html>
<body>
    <h2> using script tag in body </h2>
    <p id="Ex." > Not changed </p>
    <button type="button" on click="Excample()">
        Try it </button>
<script>
    function Excample() {
        document.getElement By Id("Ex.").innerHtml
        = " yes, I do it." ;
                                    }
</script>
</body>
</html>
```

[9] Using Script tag :-

```
<!Doctype html>
<html>
    <body>
        <h2> Hello </h2>
        <p id="Ex."></p>
        <script>
            document.getElement By Id("Ex.").inner
            = "my first Js" ;
        </script>
        </body>
        </html>
```

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[10] External JS:-

```
<!Doctype html>
 <html>
  <body>
     <h2> Demo External JS </h2>
      <p id="Ex"> A Paragraph </p>

 <button type="button" onclick="Example()"> Try it
      </button>

  <p> This is example links to "myScript.js" . </p>
  ~~<p> (my script~~
  <p> (my function is stored in "myscript.js") </script>
  </body>
  </html>
```

[10.js] External JS:-

```
function Example() {
      document.getelement ("Ex").innerHTML =
      "Paragraph Changed." ;
    }
```

[11] Js in statement :-

```
<!Doctype html>
  <html>
   <body>
     <h2> Hello world </h2>
      <p> first Js. </p>

      <p id = "Ex" ></p>
  <script>
     document.getElementById("Ex").innerHtml = 5000+63 ;

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

[12] Js in statement :-

```
<!Doctype html>
  <html>
  <body>
     <h2> Hello world </h2>
     <p> first Js </p>
     <p> Hello How are you ? I am
          fine here ! </p>
  <script>
    document.write(6045 - 5446);
  </script>
  </body>
  </html>
```

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[13] JS in statement :-

```
<!Doctype html>
<html>
<body>
  <h2> Hello world </h2>
  <P> first JS. </P>

<button type="button" on click="document write
                                (7865540 * 685524)"> Try it
  </button>
  </body>
  </html>
```

[14] JS in statement window.alert :-

```
<!Doctype html>
<html>
<body>
    <h2> hello world </h2>
    <P> my first JS. </P>
<script>
  window. alert (5546646646 / 6 );
</script>

</body>
</html>
```

[15] Alert :-

```
<!Doctype html>
<html>
<body>
    <h2> Hello world </h2>
    <P> my first JS </P>

<script>
alert (554535 + 653530);
</script>

    </body>
    </html>
```

[16] console.log :-

```
<!Doctype html>
    <html>
        <body>
            <h2> console.log </h2>
            <P> Hello world </P>
            <br>
            <P> Hello world </P>
            <br>
            <P> Hello world </P>
    <script>
        console.log (6045 - 5446);
    </script>
        </body>
        </html>
```

[17] window.print :

```
<!Doctype html>
    <html>
    <body>
        <h2> This is my Printer <\h2>
        <P> Click the button to print this page
                                        <\P>
 <button onclick = " window. print ()" >print this
    page <\button>

 <\body>
 <\html>
```

[18] Let :-

```
<!Doctype html>
    <html>
    <body>
        <h2> hello world <\h2>
        <P> your <b> Time is up <\b>,
            my first Time is now ! you can't
 <b> can't see me <\b> , my time is now ! <\P>

 <P id = " demo" > <\P>
   <script>
      let x, y, z ;
        x = 7715 ;
        y = 1256 ;
        z = x+y ;
 document. getElement By Id( " Demo ") . inner HTML
 = " The value of z is <b> " + z + " <\b> " ;
 <\script>
 <\body>
 <\html>
```

* Loop :-

[19] Loop

(i) instead of writing :-

```
<html>
<body>
 <h2> JavaScript </h2>
 <P id = " ex." ></P>
<script>
   const cars = [" BMW" , "mercdes" , " Toyoto" ,
                 " volvo" ] ;

   let text = " " ;
       for (let i = 0 ; i < cars.length ; i++)
   { text += cars [i] + " <br>" ; }
       document.getElementById(" ex. ").innerHTML = text;
 </script>
 </body>
 </html>
```

(ii) Loop for :-

```
<html>
<body>
      <h2> JavaScript </h2>
      <P id = "ex." ></P>
 <script>
      let text = "" ;
      for (let i = 0 ; i < 5 ; i++) {
      text += " The number is" + i + " <br> " ; }
```

```
document.getElementById("Ex.").innerHTML = text;
</script>
</body>
</html>
```

(iii) var loop :-

```
<html>
<body>
  <h2> JavaScript </h2>
  <p id = "ex."> </p>
  <script>
    var i = 6;
    for (var i = 0 ; i < 11 ; i++) {
        // Some statements }
document.getElementById("ex.").innerHTML = i;
  </script>
  </body>
  </html>
```

(iv) let loop :-

```
<html>
<body>
  <h2> Javascript let </h2>
  <p id = "ex."> </p>
    <script>
      let i = 5 ;
      for (let i = 0; i < 10 ; i++) {
          // Some statements }
document.getElementById("ex.").innerHTML = i;
</script>
</body></html>
```

(v) for in loop :-

```
<html>
<body>
  <h1> Javascript for in loop </h1>
  <p> Iterate (loop) over the properties </p>
  <p id = "ex." ></p>
  <script>
   const person = { fname : " John ", lname " Doe ",
                    age : 25 } ;

   let text = " " ;
for (let x in person ) { text += person [x] + " " }
document.getElement By Id ( " ex. " ). innerHTML = text ;
</script>
</html>
```

(vi) for of loop :-

```
<html>
<body>
    <h1> Javascript for of loop </h1>
<p> loop over the values of an array : </p>
<p id = " ex. " > </p>
    <script>
    let text = " " ;
    const cars = [ ' BMW ', ' volvo ', ' mini ' ] ;

for (let x of cars { to
                    text += x + " " ; }
document.getElement By Id ( " ex. " ) . innerHTML = text ;
  </script>
  </body>
  </html>
```

(vii) While Loop :-

```
<html>
<body>
  <h2> JavaScript While Loop </h2>
  <p id = "ex." > </p>
   <script>
    let text = " " ;
    let i = 0;
    while (i < 10) {
          text += " <br> the number is" + i; i++; }
document.getElementBy Id ("ex.").innerHTML = text;
 </script>
 </body>
 </html>
```

(viii) Do While Loop :

```
<html>
<body>
  <h2> JavaScript </h2>
   <p id = "ex."> </p>
  <script>
   let text = " "
   let i = 0;
   do {
        text += " <br> The number is" + i ;
        i++;
      }
  while (i < 10);
document.getElement By Id ("ex.") . innerHTML = text;
 </script>
 </body> </html>
```

[20] Function :

(i) Js function :-

```
<html>
<body>
    <h2> Js in function </h2>
    <P> This example calls a function which performs
    </P>
  <P id = "ex."> </P>
        <script>
            function myfunction (s1, s2) {
                return s1 * s2 ; }
document.getElementBy Id ("ex.") . innerHTM = myfunction(
</script>
</body>
</html>
```

(ii) Js in return :-

```
<html>
<body>
  <h2> Js in return function </h2>
  <P> This example calls a function which performs
  <P id = "ex." > </P>
  <script>
  var x = myfunction (4, 3) ;
  document .getElementBy IdC"ex.") . innerHTM = x;

  function myFunction (a, b) {
          return a * b ;
        } </Script>
        </body> </html>
```

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(iii) Convert function :-

```
<html>
<body>
  <h2> JS convert </h2>
<P> This example calls a function to convert form </P>
<P id ="ex" > </P>
  <script>
      function tocelsius(f) {
          return (5/9) * (f-32); }
    document.getElementBy Id ("demo"). innerHTM2 = toca
    rsius(77);
      </script>
      </body>
      </html>
```

(iv) Invoke function :-

```
<html>
<body>
    <h2> JS Invoke function </h2>
<P> This example calls a function which performs a
calculation and returns the result : </P>
  <P id ="ex"> </P>
  <script>
  var x = myFunction (4, 3);
  document.getElementBy Id ("ex"). innerHTML = x;
  function myFunction (a, b) { return a* b ; }
</script>
</body>
</html>
```

```
<script>
  function toCelsius(f) {
      return (5/9) * (f-32); }
document.getElementById("ex.").innerHTML = toCelsius;
</script>
</body>
</html>
```

(v) Functions used as variable values :-

```
<html>
<body>
  <h2> JavaScript </h2>
  <p id = " ex." > </p>
<script>
  document.getElementById("ex.").innerHTML =
        " The temperature is" + toCelsius(77) +
                                "celsius";
  function ~~to~~ toCelsius(fahrenheit) {
        return (5/9) * (fahrenheit - 32); }
</script>
</body>
</html>
```

(vi) Local function :-

```
<html>
<body>
    <h2> JS function </h2>
      <p> outside myFunction() carname is undefined
      <p id = "ex." > </p>
      <p id = " ex1." > </p>
<script>
  myfunction();
```

```
function myFunction() {
  let carName = "volvo";
  document.getElementById("car.").innerHTML=
        typeof carName + " " + carName; }
  document.getElementById("ext.").innerHTML =
        typeof carName;
</script>
</body>
</html>
```

[21] Events and dynamic DOM manipulation in JS:-

(i) Event 1:-

```
<html>
  <body>
    <h2> Javascript HTML Events </h2>
    <h2 onclick = " this.innerHTML='oops!' " >
        click on this text ! </h2>
</body>
</html>
```

(ii) Event 2:-

```
<html>
<body>
  <h2> Javascript </h2>
  <h2 onclick = "changeText(this)"> click on this
      text </h2>
<script>
  function changeText(id) { id.innerHTML = "oops!"
  }
</script>
</body>
</html>
```

c iii) Event Attributes:-

```
<html>
<body>
  <h2> JavaScript HTML Events </h2>
   <p> Click the button to display the date </p>
<button on click = " displayDate() "> The time is ? </button>
  <script>
     function displayDate() {
                document.getElementById("ex.").inner
        HTM2 = Date();  }
<\script>
<p id = "ex." > </p>
</body>
</html>
```

c iv) Assign Events Using the HTM2 DOM:-

```
<html>
<body>
     <h2> JavaScript HTM2 Events </h2>
      <p> Click "Try it" to execute the displayDate().
<button id = " myBtn" > Try it </button>
<p  id = " ex." > </p>
<script>
document.getElementById("myBtn"). onclick = displayDate
     function displayDate ( ) {
                document.getElementById("ex.").inne
     HTM2 = Date ( ) ;  }
</script>
</body>
</html>
```

(v) The onload and onunload Events :-

```
<html>
 <body onload = "checkcookies()" >
      <h2> JavaScript HTM2 Events </h2>
      <p id = "ex."> </p>
      <script>
         function checkCookies() {
          var text = " ";
            if (navigator. cookieEnabled == true)
 {
    text = "cookies are enabled." ;
  }
    else
     {
    text = " Cookies are not enabled." ;
    }
      document . getElementBy Id ("ex.") . inner HTM2 = text;
    }
<\script>
 <\body>
 <\html>.
```

(vi) onchange Event :-

```
<html>
<body>
    <h2> JavaScript </h2>
    Enter your name : <input type = " text" id = "frame"
    onchemy = "uppercase()" >
    <p> When you leave the input field, a
      function is triggred . </p>
```

```
<script>
    function uppercase() {
        const x = document.getElementById("fnam
        x.value = x.value.toUppercase();
        }

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

(vi) The onmouseover and onmouseout :-

```
<html>
<body>
    <div onmouseover = "mover(this)"
         onmouseout = "mOut(this)"
         style = "background-color : #D94A38;
width : 120px; height : 20px; padding : 40px;">
        Mouse Over Me </div>
<script>
    function mover(obj) { obj.innerHTML = "Thank you
 function mOut(obj) { obj.innerHTML = "mouse over me"}
</script>
</body>
</html>
```

(vii) The onmousedown, onmouseup and on Click Events :-

```
<html>
<body>
  <div onmousedown = " mDown (this)" onmouse up="mUp(this)"
  style = " background - color : #D94A 38 ; width: 90 px;
  height: 20px ; Padding : 40 px ;" > Click Me </div>
<Script>
  function mDown (obj) { obj. style. background color =
    "#1ec5e5" ;
      obj. innerHTML = " Release Me" ; }
  function mUP (obj) { obj. style. background color =
    "#D94A38" ; obj. innerHTML = "Thank you" ; }
</Script>
</body>
</html>
```

[22] Conversions :-

(i) number Method :-

```
<html>
<body>
    <h1> JavaScript Number </h1>
    <P> The Number () method converts a variable. </P>
    <P id = "ex"> </P>
    <script>
        document. getElementById ("ex"). innerHTML =
      Number ("3.14") + "<br>" +
      Number (Math. PI) + "<br>" +
      Number (" ") + "<br>" +
      Number ("") + "<br>" +
      Number ("100 9988") + "<br>" +
      Number ("rum") + "<br>" + ;
```

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

(ii) Type of Operator (1):-

```
<html>
<body>
  <h1> Type of Operator </h1>
  <p style=" color: dodgerblue; "> The Type of operator
   returns the type of a variable or expression:</p>
  <p id = "ex." > </p>
    <script>
        let y = " 5 "  ;
        let x = +y  ;
        let z = " xim" ;
document.getElementBy Id ("ex.") . innerHTML = typeof x +
  "<br>" + typeof x + "<br>" + type of z ;
    </ script>
    </ body >
    </ html>
```

(iii) Type of operator (2) :-

```
<html>
<body>
  <h2> The JavaScript typeof Operator </h2>
  <p> The typeof operator returns the type of a
  variable or expression: ~~res~~ </p>
  <p id = " ex."> </p>
<script>
    let y = 5 ;
    let x = "5.04"
document.getElementBy Id ("ex.") . innerHTML = typeof
  f"<br>" + type of x ;
```

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

(iv) String Method :-

```
<!Doctype html>
<html>
<body>
 <h2> The JavaScript string Method </h2>
<P> The String Method can convert a number to
                                a string </P>
 <P id = " ex. " > </P>
   <script>
   let x = 143
     document.getElementBy Id ("ex.").innerHTM =
   string (x) + " <br> " +
   string (144) + " <br> " +
   string (100 + 44) ;
   </script>
   </body>
   </html>
```

(v) Number Methods :-

```
<html>
<body>
      <h2> JavaScript number Method </h2>
<P style = " text-align: left ; color: red ; " > The To String
 method converts a number to a string </P>
 <P id = " ex. " > </P>
  <script>
        let x = 103;
```

```
document.getElementById("ex.").innerHTML = x.toString() +
"<br>" + (102).toString() + "<br>" + (100+02).toSt
</script>
</body>
</html>
```

(vi) New Date :-

```
<html>
<body>
    <h1> JavaScript Dates: </h1>
    <p> Using new Date() </p>
    <p id = "ex."> </p>
  <script>
   const d = new Date();
   document.getElementBy Id("ex."). innerHTML = d;
  </script>
  </body>
  </html>
```

(vii) Other Conversion Infinity :-

```
<html>
<body>
    <h2> JavaScript Type Conversions </h2>
  <p> Converting Infinity to other types: </p>
  <p id = "ex." style="font-family : courier"> </p>
<script>
   let x = Infinity
    document.getElementBy Id("ex.").innerHTML =
" Number : " + Number(x) + "<br>" +
" String : " + String(x) + "<br>" +
" Boolean : " + Boolean(x);
</script>
</body> </html>
```

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(viii) Conversions numeric string :-

```
<!DOCTYPE html>
<html>
<body>
<h2> JavaScript Type Conversion </h2>
<P> Converting a numeric string to other type: </P>
<P id = " ex." style = "font-family: Courier"> </P>
<script>
let x = " 20" ;
document.getElementById("ex.").innerHTML =
"Number : " + Number(x) + "<br>" +
"String : " + String (x) + "<br>" +
"Boolean : " + Boolean(x) ;
</script>
</body>
</html>
```

Ex: (ix) Conversions text string :-

```
<html>
<body>
<h2> JavaScript Type Conversions </h2>
<P> Converting a text string to other type: </P>
<P id = "ex." style = "font-family: Courier"> </P>
<script>
let x = "twenty";
document.getElementById("ex.").innerHTML =
"Number : " + Number (x) + "<br>" +
"String : " + String (x) + "<br>" +
"Boolean : " + Boolean(x);
</script>
</body> </html>
```

(x) Number Converts a variable ~~into~~ to a number :-

```
<html>
<body>
<h1> Java script Number Method <h1>
<P> The number comethod converts a
        variable (or value) into a number: <1P>
<P id="ex."> <P> <1P>
<script>
document.getElementById("ex.").innerHTML =
    Number (true) + "<br>" +
    Number (false) + "<br>" +
    Number ("10") + "<br>" +
    Number (" 10") + "<br>" +
    Number ("10 ") + "<br>" +
    Number ("10") + "<br>" +
    Number ("10.33") + "<br>" +
    Number ("10,33") + "<br>" +
    Number ("10 33") + "<br>" +
    Number ("John") ;
<1body>
<1html>
```

(xi) Date Years method :-

```
<html>
<body>
<h1> Js in dates <1h1>
<P> Return the full years of a date object <1P
<P id="ex."><1P>
<script>
const d = new Date("2000-05-25")
document.getElementById("ex.").innerHTML = d.getFull
```

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

(xii) Month Method :-

```
<html>
<body>
  <h1> JS in dates </h1>
  <p> The get month() method </p>
      <p id ="ex." > </p>
  <script>
        const d= new Date("2023-8-26");
document.getElementBy Id("ex.").innerHTML =d.get
                                          month()+1;
</script>
</body>
</html>
```

(xiii) Date method :-

```
<html>
  <body>
    <h1> JS in dates </h1>
      <p> The getdate() Method </p>
        <p id = "ex." > </p>
          <script>
            const d= new date("2023-08-18")
document.getElementBy Id("ex.").innerHTML =
                                d.getdate();
        </script>
  </body>
</html>
```

(xiv) Hours Method :-

```
<html>
<body>
<h1> JavaScript in Hours method </h1>
<p> Return the hours of a date as a number</p>
  <p id = "demo"> </p>
  <script>
     const d = new Date("2023-02-25") ;
document.getElementById("demo").innerHTML = d.getHours();
  </script>
  </body>
  </html>
```

(xv) Minute Method :-

```
<html>
<body>
<h1> JS in minutes </h1>
<p> The Minutes Method </p>
  <p id = "ex." > </p>
  <script>
     const d = new Date("2023-02-23");
d.get document.getElement By Id("ex.").innerHTML =
                                  d.getMinutes();
</script>
</body>
</html>
```

(xvi) Second Methond :-

```
<html>
<body>
 <h1> Js in Second </h1>
  <p> The get SecondsMethod </p>
  <p id = "ex."> </p>
   <script>
        const d = new date("2023-02-05");
document.getElement By Id("ex.").innerHTML = d.get
                                              seconds();
</script>
</body>
</html>
```

(xvii) Day method :-

```
<html>
  <body>
    <h1> Js in Day </h1>
     <p> Js in get day () method. </p>
      <p id = "ex."> </p>
    <script>
        const d = new date ("2021-03-25");
document. getElement By Id("ex.") .innerHTML = d.getDay();
  </script>
  </body>
  </html>
```

(xviii) Time method :-

```
<html>
<body>
  <h1> JS in time </h1>
  <p> The get time() Method </p>
  <p id = "ex." ></p>
  <script>
    const d = new date("2023-05-25");
document.getElementBy Id("ex.") . innerHTML = d.getTime()
</script>
</body>
</html>
```

(xix) Date. Now Method :-

```
<html>
<body>
  <h1> JS in date </h1>
  <p> The Date.now() method</p>
  <p id = "ex."> </p>
  <script>
    const date = Date.now();
document.getElement By Id("ex.") . inner HTML = date;
</script>
</body>
</html>
```

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(xx) Time Zone :-

```
<html>
<body>
    <h1> Js in dates </h1>
      <P> The time zone difference in minutes
  is : </P>
      <P id = " ex." > </P>
  <Script>
    const d = new Date();
    document.getElementById("ex").innerHTML
                                = d.getTimezoneOffset();
</Script>
</body>
</html>
```

Jquery

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[1] Getting Started with jquery and plugin :-

(i) CDN link :-

```
<!Doctype html>
<html>
<head>
<script src = " http://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>
<h2> This is a heading </h2>
<p> This is a paragraph </p>
<button> Click me </button>
</body>
</html>
```

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[2] Selectors :-

(i) Element Selector :- $(" ")

```
<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>
<h2> This is a heading </h2>
<p> This is another Paragraph </p>
<button> Click me to hide Paragraphs </button>
</body>
</html>
```

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(ii) # id selector :- $("# ")

```
<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> This is a heading </h2>
<p id="test"> This is another paragraph </p>
<button> Click me </button>
</body>
</html>
```

(iii) Class selector :- $(". ")

```
<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() {
      $(".p1").hide();
    });
  });
```

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```
</script>
</head>
<body>
    <h2> This is a heading </h2>
    <p ~~id~~ class="p1"> This is a Paragraph</p>
<button> Click me </button>
</body>
</html>
```

(iv) universe Selector :- $("*")

```
<html>
<~~bo~~ <head>
<script src="https://ajax.googleapis.com/ajax/libs/
        jquery/3.6.3/jquery.min.js">
</script>
<script>
    $(document).ready(function() {
    $("button").click(function() {
    $("*").hide();
        });
    });
</script>
</head>
<body>
    <h2> This is a heading </h2>
    <p> This is another Paragraph </p>
<button> Click me </button>
</body>
</html>
```

[3] Events :-

Mouse Events	keyboard Events	form Events	Document / window Events
click	keypress	submit	load
dblclick	keydown	change	resize
mouseenter	keyup	focus	scroll
mouseleave		blur	unload

(i) Click :-

```
<html>
<head>
<script = "https://ajax.googleapis.com/ajax/libs/jquery/1.6.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
$("p").click(function(){
$(this).hide();
});
});
</script>
</head>
<body>
<p> click me query ! </p>
<p> click me too ! </p>
</body>
</html>
```

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(ii) dblclick :-

```
<html>
<head>
<script ="http://ajax.googleapis.com/ajax/libs/jquery/
 3.6.3/jquery.min.js">
</script>
<script>
 $(document).ready(function() {
  $(document).dblclick(function(){
   $(this)  .hide();
  });
 });
</script>
<body>
 <p> click me  (ready) </p>
 <p> click me  (dbl) </p>
</body>
</html>
```

(iii) mouseenter :-

```
<html>
<head>
<script ="http://ajax.googleapis.com/ajax/libs/jquery/3.6.3/
 jquery.min.js">
</script>
 $(document).ready(function() {
  $("#p1").mouseenter(function() {
   alert("you entered p1!");
  });
 });
</script>
</head>
<body> <p id="p1"> Enter this para </p> </body> </html>
```

(iv) mouseleave :-

```
<html>
<head>
<script = " http:// ajax.googleapis.com /ajax/ libs /jquery/2.
 jQuery.min.js" >
 </script>
 <script>
    $(document) ready (function () {
   $("#p1") .mouseleave(function() {
        alert("Bye! you now leave p1!");
      });
    } ;
  </script>
  ~~<body>~~ </head>
   <body>
    <p id = " p1"> This is para </p>
   </body>
   </html>
```

(v) focus :- (vi) blur :-

```
<html>
<head>
<script src = " https://ajax.googleapis.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 = " fullname" /> <br />
  Email: <input type = " text"  name = " email " />
  </body>
  </html>
```

(vii) on method :-

```
<html>
<head>
<script src = " https: // ajax . googleapis . com/ajax/libs/
jQuery / 3.6.3 /jQuery.min.js">
</script>
    $(document). ready (function() {
      $("p"). on ("click", function() {
        $(this) . hide() ;
      });
    });
    </script>
     </head>
     <body>
       <p> If you Click on me .
       <p> click me away ! </p>
       <p> Click me too ! </p>
    </body>
     </html>
```

(viii)

[4] Hide | show Effect :-

(1) hide() | show()

```
<html>
 <head>
 <script src="https://ajax.googleapis.com/ajax/libs/jq
  /3.6.3/jquery.min.js">
 </script>
 <script>
  $(document).ready(function() {
     $("#hide").click(function() {
        $("p").hide();
     });
     $("#show").click(function() {
        $("p").show();
     });
     });
     </script>
     </head>
      <body>
         <p>If you click on the "Hide" </p>
      <button id="hide">Hide</button>
      <button id="show">Show</button>
     </body>
     </html>
```

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(ii) Toogle :-

```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/
jquery.min.js">
</script>
<script>
$(document).ready(function(){
$("button").click(function(){
$("p").toggle();
});
});
</script>
</head>
<body>
<button> Toogle </button>
<p> This is a paragraph. </p>
<p> This is another small paragraph. </p>
</body>
</html>
```

[5] Fade :-

(i) fade IN() :-

```
<!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").fadeIN();
$("#div2").fadeIN("slow");
$("#div3").fadeIN(3000);
});
});
</script>
</head>
<body>
<p> fade IN() with different Parameters.</p>
<button> Click to fade in boxes</button><br>
<div id="div1" style="width: 80px; height: 80px;
background-color: red; display: none;"></div><br>
<div id="div2" style="width: 80 px; height: 80px;
background-color: blue; display: none;"></div><br>
<div id="div3" style="width: 80 px; height: 80px;
background-color: green; display: ~~green~~ none;"></div><br>
</body>
</html>
```

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(ii) fade out ():-

```
<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").fadeout()
        $("#div2").fadeout("slow");
        ~~$("#div3").fadeout(3000);~~
    });
    });
    </script>
    </head>
    <body>
<p> fade out () with different Parameters</p>
    <button> click</button>
<div id="div1"
style="width: 80px; height: 80px; background-color: red;">
</div> <br>
<div id="div2"
    style="width: 80px; height: 80px; background-color:
    green;" ></div> <br>
    </body>
    </html>
```

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(iii) fade toggle :-

```
<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").fadeToggle();
        $("#div2").fadeToggle(300);
      });
      });
    </script>
    </head>
    <body>
    <p> Fade Toggle ( ) with parameters </p>
    <button> click to </button>
<div id = "div 1" style = " width : 80 px ; height : 80px;
background - color : red ; " > </div> <br>
<div id = "div 2" style = "width : 80 px ; height : 80 px;
background-color : green" > </div>
    </body>
    </html>
```

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(iv) fade To :-

```
<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);
$("#div2").fadeTo("slow", 0.4);
});
});
</script>
</head>
<body>
<p> fade To ( ) with different parameters </p>
<button> Click </button>
<div id="div1"
style="width: 80px; height: 80px; background-
color: green;"> </div> <br>
<div id="div2"
style="width: 80px; height; 80px: background-
color: red;"> </div> <br>
</body>
</html>
```

[6] Slide:-

(i) Slide down up:-

```
<html>
<head>
<script src = " https://ajax.googleapis.com/ajax/libs/
jquery/1.3.6.3/jquery.min.js">
</script>
<script>
$(document).ready(function() {
    $("#flip").click(function() {
        $("#panel").slideDown("slow");
    });
});
</script>
<style>
    #panel, #flip {
        padding : 5 px;
        text-align: center;
        background-color: red;
        border: solid 1px green; }
    #panel {
            padding : 50 px;
            display : none ;}
</style>
</head>
<body>
<div id = "flip"> Click to down </div>
<br>
<div id = "panel"> Hellow World! </div>
</body>
</html>
```

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(ii) Slide up :-

```
<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").slideup("slow", function() {});
        });
    });
 </script>
 <style>
    #panel, #flip {
            padding : 5 px ;
        text-align : center ;
        background-color : green ;
        border : solid 1 px black ; }
    #panel {
            padding : 50 px ;
            display : none ;
    </style>
    </head>
<div id = "flip"> click to up </div>

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

 </body>

</html>
```

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(iii) Slide Toggle :-

```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jq
                3.6.3/jquery.min.js">
</script>
<script>
    $(document).ready(function() {
      $("#flip").click(function() {
      $("#pannel").slideToggle("slow");
        });
        });
</script>
<style>
  #pannel, #flip {
          padding : 5px;
          text-align : center;
          background-color : green;
          border : solid 1px red; }
  #pannel {
          padding : 50px;
          display : none; }
</style>
</head>
<body>
<div id="flip">click to up & down</div>
<div id="pannel">Hello world</div>
</body>
</html>
```

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[7] Animation:-

(i) Using Relative values :-

```
<html>
<head>
 <script src = " https://ajax.googleapis.com/ajax/libs/
                jquery/2.6.2/jquery.min.js">
 </script>
 <script>
      $(document).ready(function() {
        $("button").click(function() {
          $("div").animate({
            left : '250px',
            height : '+= 150px',
            width : '+= 150px'
          });
          });
        });
        </script>
        </head>
        <body>
   <button> start </button>
     <P> </P>
 <div style=" background : red ; height : 100px ;
              width ; 100px ; position : absolute ; ">
  </div>
  </body>
  </html>
```

[8] Stop ( ):-

```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/
  jquery/3.6.3/jquery/3.6.3/jquery.min.js"
  </script>
  <script>
        $(document).ready(function() {
          $("#flip").click(function() {
            $("#panel").slide down(5000);
          });
          $("#panel").slide #P(function() {
            $("#panel").stop( );
          });
        });
    </script>
    <style>
#panel, #flip {
        padding : 5px;
        font-sizing: 18 px;
        text-align: center;
        background-color: #555;
        color : white
        border : solid 1px #666;
        border-radius : 3 6px; }
#panel {
        padding : 50 px;
        display : none; }}
<div id = "flip"
    </style>
    </head>
    <body>
```

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```
<button id = " stop"> stop sliding </button>
<div id = " flip"> click to slide up / down</div>
<div id = " panel"> Hello world / </div>
</body>
</html>
```

[9] Call back :-

(i)

```
<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(" slow", function() {
            alert(" The paragraph is now hidden");
        });
    });
});
</script>
</head>
<body>
<button> Hide </button>
<p> This is a paragraph </p>
</body>
</html>
```

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(ii)
```
<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(1000);
        alert("The Paragraph is now hidden");
    });
});
</script>
</head>
<body>
    <button> Hide </button>
    <p> This is a Paragraph </p>
</body>
</html>
```

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[10] jQuery - Chaining :-

(i)
```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/
            jquery/3.6.3/jquery.min.js">
<\/script>
    $(document).ready(function() {
      $("button").click(function() {
            $("#p1").css("color","red").slideup
            (2000).slideDown(2000);
    });
});
    </\/script>
    </\/head>
    <body>
     <p id="p1">Jquery Hello world</p>
    <button> Click me </\/button>
    </\/body>
    </\/html>
```

(ii)
```
<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() {
                $("#p1").css("color","red")
                .slideup(2000)
                .slide down(2000);
        });
    });
```

```
<script>
</head>
<body>
  <p id="pj">jQuery Hello world !! </p>
    <button> Click me </button>
    </body>
    </html>
```