1) alert Message.

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

<title>Title</title>
<script>
    alert('hello');
    document.write("welcome")
</script>
</head>
<body>
<h1>java</h1>
</body>
</html>
```

2) Alert message using function

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
<script>
    function f()//funtion nane
    {
    alert("hello");
    }
</script>
<input type="button" value="click" onclick="f()">//function call

</body>
</html>
```

3) external js file

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
```

```html
<script type="text/javascript" src="a.js">// external js file link

</script>
<input type="button" value="click" onclick="f()">
</body>
</html>
```

4) factorial of numbers

```html
<!DOCTYPE html>
<html>
<head>
</head>
<body style = "text-align: center; font-size: 20px;">
<h1> Factorial of Number </h1>
Enter a number: <input id = "num">
<br><br>
<button onclick = "fact()"> Factorial </button>
<p id = "res"></p>
<script>
function fact(){
var i, num, f;
f = 1;
num = document.getElementById("num").value;
for(i = 1; i <= num; i++)
{
f = f * i;
}
i=i-1;
document.getElementById("res").innerHTML = "The factorial of the number " + i + " is: " + f
;
}
</script>
</body>
</html>
```

5) find the area

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
<h2>Area</h2>
Enter the width:<input id="n">
```

```
enter the height:<input id="m">
<br><br>
<button onclick="area()">Area</button>
<p id="r"></p>
<script>
function area()
{
var n,m,a;
n=document.getElementById("n").value;
m=document.getElementById("m").value;
a=n*m;
document.getElementById("r").innerHTML="The Area is"+a;
}
</script>
</body>
</html>
```

6)find the price of fruits

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
 <script>
    function price()
    {     var x;
        x=document.getElementById("fruits").value;
         switch(x)
             {
                 case 'Apple':
                         price=20;
                         break;
                 case 'banana':
                         price=25;
                         break;
                 case 'Grape':
                         price=30;
                         break;
                 default:
                     print("invalid")
                     break;
             }
    document.getElementById('res').value=price;
```

```
        }
        </script>
    <h2>Fruits..!!!!</h2>

    Select your favorite fruit:
        <select id="fruits">

        <option value="banana">banana</option>
        <option value="Apple">Apple</option>
        <option value="Grape">Grape</option>
        </select><span id="s"></span>
        <br>
        <button onclick="price()">Price</button>
        <input type="text" id="res">


    </body>
    </html>
```

JQuery
1)hide the text content

```
<!DOCTYPE html>
<html>
<head>
 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("#hide").click(function(){
    $("div").hide();
  });
});
</script>
</head>
<body>

<div>If you click on the "Hide" button, I will disappear.</div>

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

</body>
</html>
```
2)form creation

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
<form method="post">
    Enter the Username:<input id="n"><span id="k" style="color:red"></span>
    <br><br>
    Enter the password:<input id="m"><span id="p" style="color:red" ></span>
    <br><br>
    conform password:<input id="pc"><span id="c" style="color:red"></span>
    <br><br>
    Enter the mobile.no:<input id="mob"><span id="mno" style="color:red"></span>
    <br><br>
    Enter mailId:<input id="ma"><span id="il" style="color:red"></span>
    <br><br>
    <button onsubmit='valid()' formaction="htmljs.html">submit</button>
</form>
<script>
    function valid()
    {
    var n,m,pc,mob,ma;
    var
mp=/^[9876][0-9]{9}$/,me=/[a-z0-9]+[_-#$%^&*]?[a-z0-9]+[@][a-z0-9]+[_-#$%^&*]?[a-z0-9]+[.][a
-z]{2,3}/;
    n=document.getElementById("n").value;
    m=document.getElementById("m").value;
    pc=document.getElementById("pc").value;
    mob=document.getElementById("mob").value;
    ma=document.getElementById("ma").value;
    var c=0;
    if(n=="")
        {
        document.getElementById("k").innerHTML="field required";
        c++;
        }
    if(m.length<8)
        {
        document.getElementById("p").innerHTML="requires 8 or more character/symbols";
        c++;
        }
    if(m!=pc)
```

```javascript
                {
                  document.getElementById("c")innerHTML="error in password";
                  c++;
                }
        if(!(mob.match(mp))
            { document.getElementById("mno")innerHTML="not required mobile number";
              c++;
            }
        if(!(ma.match(me))
                {
                  document.getElementById("il")innerHTML="not required mail id";
                  c++;
                }
        if(c==0)
                {
                  return true;
                 }
        else
                {
                  return false;
            }
         }
        }
</script>
</body>
</html>
```