**1.a**

<html>

<body>

Birthday: <input type="date" id="myDate">

<p>Click the button to set a date for the date field.</p>

<button onclick="myFunction()">Try it</button>

<script>

function myFunction() {

document.getElementById("myDate").value = "2023-06-20";

}

</script>

</body>

</html>

**1.b**

<html>

<head>

<title>practice </title>

</head>

<body>

<script>

var myDate= new Date();

document.write(myDate.getDay()

)

</script>

</body>

</html>

**2.a**

<html>

<head>

<title>assignment 3</title>

</head>

<body>

<script>

const arr = [45, 2, 13, 5, 14, 1, 20];

const squareAndRootSum = (arr = []) => {

const res = arr.map(el => {

if(el % 2 === 0){

return el \* el;

}else{

return Math.sqrt(el);

};

});

const sum = res.reduce((acc, val) => acc + val);

return sum;

};

console.log(squareAndRootSum(arr));

</script>

</body>

</html>

**2.b**

<html>

<head>

<title>assignment 3</title>

</head>

<body>

<script>

const number = prompt('Enter the number: ');

const result = Math.sqrt(number);

console.log("The square root of ${number} is ${result}");

</script>

</body>

</html>

**3.a**

<html>

<head>

<title>assignment 3</title>

</head>

<body>

<script>

function test\_prime(n)

{

if (n===1)

{

return false;

}

else if(n === 2)

{

return true;

}else

{

for(var x = 2; x < n; x++)

{

if(n % x === 0)

{

return false;

}

}

return true;

}

}

console.log(test\_prime(37));

</script>

</body>

</html>

**3.b**

<html>

<head>

<title>assignment 3</title>

</head>

<body>

<script>

var i = 2;

function isPrime(n) {

if (n == 0 || n == 1) {

return false;

}

if (n == i) return true;

if (n % i == 0) {

return false;

}

i++;

return isPrime(n);

}

isPrime(3) ? document.write(" true\n") : document.write(" false\n");

</script>

</body>

</html>

**4.a**

<html>

<body>

Click the button to open new window <br><br>

<button onclick="window.open('https://www.javatpoint.com')"> Open Window </button>

</body>

</html>

**4.b**

**5.b**

<html>

<body>

<h2>The Navigator Object</h2>

<p>The cookieEnabled property returns true if cookies are enabled:</p>

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

<script>

document.getElementById("demo").innerHTML =

"navigator.cookieEnabled is " + navigator.cookieEnabled;

</script>

</body>

</html>

**5.a(object)**

<html>

<body>

<h2>The Navigator Object</h2>

<p>The appName property returns the application name of the browser:</p>

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

<p>Strange enough, "Netscape" is the application name for IE11, Chrome, Firefox, and Safari.</p>

<script>

document.getElementById("demo").innerHTML =

"navigator.appName is " + navigator.appName;

</script>

</body>

</html>

**6.a**

<p>Click the button to get your coordinates.</p>

<button onclick="getLocation()">Try It</button>

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

<script>

var x = document.getElementById("demo");

function getLocation() {

if (navigator.geolocation) {

navigator.geolocation.getCurrentPosition(showPosition);

} else {

x.innerHTML = "Geolocation is not supported by this browser.";

}

}

function showPosition(position) {

x.innerHTML = "Latitude: " + position.coords.latitude +

"<br>Longitude: " + position.coords.longitude;

}

</script>

</body>

</html>

8.a

<html>

<body>

<p>Click the button to make a BUTTON element.</p>

<button onclick="myFunction()">Try it</button>

<script>

function myFunction() {

var btn = document.createElement("BUTTON");

document.body.appendChild(btn);

}

</script>

</body>

</html>

**9.b**

<html>

<head>

<title>practice </title>

</head>

<body>

<h4>email</h4>

<input type="email" id="myEmail" value="saakibbapary@gamil.com">

<p>check this email</p>

<button onclick="myFunction()">check</button>

<p id="learn"></p>

<script>

function myFunction() {

var x = document.getElementById("myEmail").value;

document.getElementById("learn").innerHTML = x;

}

</script>

</body>

</html>

**9.a**

<html>

<head>

<title>practice </title>

</head>

<body>

<h1>name attibute</h1>

<input type="text" name="sakib" id="myText" value="amit-biswas">

<button onclick="myFunction()">check</button>

<p id="learn"></p>

<script>

function myFunction() {

var x = document.getElementById("myText").name;

document.getElementById("learn").innerHTML = x;

}

</script>

</body>

</html>

**9.c**

<html>

<head>

<title>practice </title>

</head>

<body>

<h1>password</h1>

<input type="password" id="myPass" value="pass12345">

<button onclick="myFunction()">check</button>

<p id="learn"></p>

<script>

function myFunction() {

var x = document.getElementById("myPass").name;

document.getElementById("learn").innerHTML = x;

}

</script>

</body>

</html>

**9.E**

<html>

<body>

<p>Submit form</p>

<form id="myForm">

First name: <input type="text" name="fname"><br>

Last name: <input type="text" name="lname"><br><br>

<input type="button" onclick="myFunction()" value="Submit form">

</form>

<script>

function myFunction() {

document.getElementById("myForm").submit();

}

</script>

</body>

</html>

**10.a**

<html>

<body>

<h2>JavaScript HTML DOM</h2>

<p>Changing the HTML style:</p>

<p id="p1">Amit-Biswas-sir!</p>

<p id="p2">Faisal-Ahmed-sir!</p>

<script>

document.getElementById("p1").style.color = "blue";

document.getElementById("p2").style.fontFamily = "Arial";

document.getElementById("p1,p2").style.fontSize = "larger";

</script>

</body>

</html>

**10.b**

**11.a**

<html>

<body>

<h1>The Element Object</h1>

<h2>The appendChild() Method</h2>

<ul id="myList">

<li></li>

</ul>

<p>Click "Append" to append an item to the end of the list:</p>

<button onclick="myFunction()">Append</button>

<script>

function myFunction() {

const node = document.createElement("li");

const textnode = document.createTextNode("empty");

node.appendChild(textnode);

document.getElementById("myList").appendChild(node);

}

</script>

</body>

</html>

**13.a**

<html>

<body>

<h1>The Document Object</h1>

<h2>The querySelectorAll() Method</h2>

<p>Add a background color all elements with class="example":</p>

<h2 class="learn">A heading</h2>

<p class="learn">A paragraph.</p>

<script>

const node= document.querySelectorAll(".learn");

for (let i = 0; i < node.length; i++) {

node[i].style.backgroundColor = "red";

}

</script>

</body>

</html>

**13.b**

<head>

<style>

#myDIV {

border: 1px solid black;

margin: 5px;

}

</style>

</head>

<body>

<div id="myDIV">

<h2 class="example">A heading with class="example" in div</h2>

<p class="example">A paragraph with class="example" in div.</p>

</div>

<p>Click the button to add a background color to the first element in DIV with class="example" (index 0).</p>

<button onclick="myFunction()">Try it</button>

<script>

function myFunction() {

var x = document.getElementById("myDIV").querySelectorAll(".example");

x[0].style.backgroundColor = "red";

}

</script>

</body>

</html>

**14.a**

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>

<script>

$(document).ready(function(){

$("button").click(function(){

$.get("demo\_test.asp", function(data, status){

alert("Data: " + data + "\nStatus: " + status);

});

});

});

</script>

</head>

<body>

<button>Send an HTTP GET request to a page and get the result back</button>

</body>

</html>

**15.a**

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>

<script>

$(document).ready(function(){

$("button").click(function(){

$.post("demo\_test\_post.asp",

{

name: "Donald Duck",

city: "Duckburg"

},

function(data,status){

alert("Data: " + data + "\nStatus: " + status);

});

});

});

</script>

</head>

<body>

<button>Send an HTTP POST request to a page and get the result back</button>

</body>

</html>