```
1)
<!DOCTYPE html>
<html>
<head>
<title>Document</title>
</head>
<body>
<h3>Question 1</h3>
<script> alert("Hello, World!")</script>
</body>
</html>
```

2a)

}



```
<!DOCTYPE html>
<html>
<head>
<title>DOM</title>
<script>
function changetext(){
```

document.getElementById("myParagraph").innerText="You Clicked The Button";

```
</head>
<body>
<pri>id="myParagraph">This is the original paragraph
<button onclick="changetext()">click me</button>
</body>
</html>
```

You Clicked The Button

click me

```
2b)
```

```
<!DOCTYPE html>
<html>
<head>
<title>Username Form</title>
<script>
function validateForm(event) {
  var username = document.getElementById("username").value;
  if (username.trim() === "") {
    alert("Username is required!");
    event.preventDefault();
  }
}
</script>
</head>
```

```
Username:
Submit
```

```
</head>
<body>

<h2>Current Date and Time</h2>
<div id="datetime"></div>
</body>
</html>
```

Current Date and Time

Sun May 04 2025 14:12:26 GMT+0530 (India Standard Time)

```
var hours = now.getHours().toString().padStart(2, '0');
   var minutes = now.getMinutes().toString().padStart(2, '0');
   var seconds = now.getSeconds().toString().padStart(2, '0');
   var timeString = hours + ":" + minutes + ":" + seconds;
   document.getElementById("clock").innerHTML = timeString;
  window.onload = function() {
   updateClock();
   setInterval(updateClock, 1000);
  }
 </script>
</head>
<body>
 <h2>Digital Clock</h2>
 <div id="clock"></div>
</body>
</html>
```

 \leftarrow \bigcirc (\bigcirc File | C:/Users/M.POOJITH%20GANESH/OneDrive/Html/html29.html

Digital Clock

14:15:51

```
4)
<!DOCTYPE html>
<html>
<head>
```

```
<title>Email Validation Form</title>
 <script>
  function validateEmail(event) {
   var email = document.getElementById("email").value;
   var emailPattern = /^[a-zA-Z0-9]+@[a-zA-Z0-9]+\\.[a-zA-Z]{2,}$/;
   if (!emailPattern.test(email)) {
    alert("Please enter a valid email address");
    event.preventDefault();
}
}
</script>
</head>
<body>
<h2>Email Validation Form</h2>
<form onsubmit="validateEmail(event)">
<label for="email">Email:</label>
<input type="text" id="email" name="email">
<br>><br>>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

\leftarrow \circlearrowleft (i) File | C:/Users/M.POOJITH%20GANESH/OneDrive/Html/html29.html

Email Validation Form

Email:	

Submit

```
5a)
<!Doctype html>
<html>
<head>
<script>
function changeColor() {
var e = document.getElementById('hover');
e.style.backgroundColor = 'lightcoral';
}
function revertColor() {
var e = document.getElementById('hover');
e.style.backgroundColor = 'green';
}
</script>
</head>
<body>
<div id="hover"
onmouseover="changeColor()"
onmouseout="revertColor()"
style="background-color:green;height:200px;width:200px;">
</div>
</body>
</html>
```



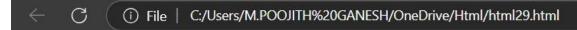
```
5b)
<!DOCTYPE html>
<html>
<head>
<title>Image Resize on Click</title>
 <style>
  #image {
   width: 300px;
   height: 200px;
   transition: width 0.5s, height 0.5s; /* Smooth transition for resizing */
  }
 </style>
 <script>
  function resizeImage() {
   var img = document.getElementById("image");
   // Toggle between two sizes
   if (img.style.width === "600px") {
    img.style.width = "300px";
    img.style.height = "200px";
   } else {
    img.style.width = "600px";
    img.style.height = "400px";
```

```
</ri></head><body><h2>Click the image to resize it</h2>
```

}

}

```
<img id="image" src="C:\Users\M.POOJITH GANESH\OneDrive\Desktop\image.jpg"
alt="instagram" onclick="resizeImage()">
</body>
</html>
```



Click the image to resize it



```
var result= num1/num2;
    alert("Result is: " + result);
   catch(error){
    alert(error);
   }
  }
 </script>
 <title>Dividing Numbers</title>
</head>
<body>
 Click the following to attempt division:
 <form>
  <input type="button" value="Divide Numbers" onclick="divideNumbers();">
 </form>
</body>
</html>
```



```
7)
<!DOCTYPE html>
<html>
<head>
```

```
<title>Square Root Calculator</title>
 <script type="text/javascript">
  function calculateSquareRoot() {
   var number = document.getElementById("number").value;
   var result = Math.sqrt(number);
document.getElementById("result").innerHTML = "The square root is: " + result;
</script>
</head>
<body>
<h2>Square Root Calculator</h2>
Enter a number:
<input type="number" id="number" />
<input type="button" value="Calculate Square Root" onclick="calculateSquareRoot()" />
</body>
</html>
```



Square Root Calculator

Enter a number:

25 Calculate Square Root

The square root is: 5