

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science



Department of Computer Science and Engineering Data Science

Academic Year: 2023-2024

Semester: V

Class / Branch: CSE(DS)

Subject:WC

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Date Of Performance:16/8/24 Date Of Submission:16/8/24

Experiment No. 4

Aim:- Develop web pages using Javascript.

Program:-

HTML:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Analog Clock</title>

<link rel="stylesheet" href="clock.css">

</head>

<body>

<div class="clock">

<div class="clock-face">

<div class="number number1">1</div>

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<div class="number number2">2</div>
<div class="number number3">3</div>
<div class="number number4">4</div>
<div class="number number5">5</div>
<div class="number number6">6</div>
<div class="number number7">7</div>
<div class="number number8">8</div>
<div class="number number9">9</div>
<div class="number number10">10</div>
<div class="number number11">11</div>
<div class="number number12">12</div>
<div class="hand hour-hand"></div>
<div class="hand minute-hand"></div>
<div class="hand second-hand"></div>
<script src="clock.js"></script>
CSS:
body {
display: flex;
iustify-content: center:

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```
align-items: center;
height: 100vh;
background: #f0f0f0;
margin: 0;
}
.clock {
width: 300px;
height: 300px;
border: 50px solid black;
border-radius: 50%;
position: relative;
padding: 20px;
box-shadow: 0 0 20px rgba(0, 0, 0, 0.2);
background: white;
}
.clock-face {
position: relative;
width: 100%;
height: 100%;
transform: translateY(-3px); /* Fix for the hands positioning */
}
.hand {
width: 50%;
```

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```
background: black;
position: absolute;
top: 50%;
transform-origin: 100%;
transform: rotate(90deg);
transition: all 0.05s;
transition-timing-function: cubic-bezier(0.1, 2.7, 0.58, 1);
}
.hour-hand {
height: 10px;
width: 30%;
left: 20%;
}
.minute-hand {
height: 4px;
.second-hand {
height: 2px;
background: red;
}
.number {
position: absolute;
font-size: 24px;
```

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```
transform: translate(-50%, -50%);
}
.number1 { top: 17%; left: 70%; }
.number2 { top: 30%; left: 85%; }
.number3 { top: 50%; left: 90%; }
.number4 { top: 70%; left: 85%; }
.number5 { top: 83%; left: 70%; }
.number6 { top: 90%; left: 50%; }
.number7 { top: 83%; left: 30%; }
.number8 { top: 70%; left: 15%; }
.number9 { top: 50%; left: 10%; }
.number10 { top: 30%; left: 15%; }
.number11 { top: 17%; left: 30%; }
.number12 { top: 10%; left: 50%; }
JS Code:
// script.js
const hourHand = document.querySelector('.hour-hand');
const minuteHand = document.querySelector('.minute-hand');
const secondHand = document.querySelector('.second-hand');
function setDate() {
const now = new Date();
const seconds = now.getSeconds();
const secondsDegrees = ((seconds / 60) * 360) + 90;
```



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```
secondHand.style.transform = `rotate(${secondsDegrees}deg)`;
const minutes = now.getMinutes();
const minutesDegrees = ((minutes / 60) * 360) + ((seconds / 60) * 6) + 90;
minuteHand.style.transform = `rotate(${minutesDegrees}deg)`;
const hours = now.getHours();
const hoursDegrees = ((hours / 12) * 360) + ((minutes / 60) * 30) + 90;
hourHand.style.transform = `rotate(${hoursDegrees}deg)`;
}
setInterval(setDate, 1000);
setDate();
```

Output:

