

### A.P. SHAH INSTITUTE OF TECHNOLOGY

### Department of Computer Science and Engineering Data Science



### Department of Data Science

Academic Year: 2023-2024

Semester: V

Class / Branch: TEDS

Subject: WCN

Name of Instructor: Prof. Ashwini Rahude

Name of Student:

Student ID:

Date Of Performance:

Date Of Submission:

### Experiment No. 4

Aim: Develop web pages using Javascript.

Program:

### HTML code:

```
<!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>
      <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>
```

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```
<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>
     </div>
   </div>
   <script src="clock.js"></script>
 </body>
 </html>
 CSS code:
body {
  display: flex;
 justify-content: center;
 align-items: center;
 height: 100vh;
  background: #f0f0f0;
  margin: 0;
}
.clock {
  width: 300px;
```

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```
height: 300px;
  border: 20px 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%;
  background: black;
  position: absolute;
  top: 50%;
  transform-origin: 100%;
```

# At som setting of themsion

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```
transform: rotate(90deg);
  transition: all 0.05s;
  transition-timing-function: cubic-bezier(0.1, 2.7, 0.58, 1);
}
.hour-hand {
  height: 6px;
}
.minute-hand {
  height: 4px;
}
.second-hand {
  height: 2px;
  background: red;
}
.number {
  position: absolute;
  font-size: 24px;
  transform: translate(-50%, -50%);
```

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}

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```
.number1 { top: 20%; left: 85%; }
.number2 { top: 35%; left: 92%; }
.number3 { top: 50%; left: 97%; }
.number4 { top: 65%; left: 92%; }
.number5 { top: 80%; left: 85%; }
.number6 { top: 85%; left: 50%; }
.number7 { top: 80%; left: 15%; }
.number8 { top: 65%; left: 8%; }
.number9 { top: 50%; left: 3%; }
.number10 { top: 35%; left: 8%; }
.number11 { top: 20%; left: 15%; }
.number12 { top: 15%; left: 50%; }
Javascript Code:
// script.js
const hourHand = document.querySelector('.hour-hand');
const minuteHand = document.querySelector('.minute-hand');
const secondHand = document.querySelector('.second-hand');
```

function setDate() {

}

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```
const now = new Date();
  const seconds = now.getSeconds();
  const secondsDegrees = ((seconds / 60) * 360) + 90;
  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();
```



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Data Science



### Output:

