SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT
COMPUTER SCIENCE AND ENGINEERING DEPARTMENT
B. Tech-1st Year
(Even Semester- 2024-2025)
Subject – Web Programming (CS104)

Lab Assignment 6

1. With the transform property, move the <div> element 100px to the right, and 200px down.

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
 width: 100px;
 height: 100px;
 background-color: lightblue;
 border: 1px solid black;
}
</style>
</head>
<body>

<div></div>

</body>
</html>
```

2. With the transform property, change the size of the <div> to half its width, but double its height.

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
 width: 100px;
 height: 100px;
 margin: 50px;
 background-color: lightblue;
 border: 1px solid black;
}
</style>
</head>
<body>

<div></div>

</body>
</html>
```

3. With the transform property, skew the <div> element 20 degrees along the X-axis, and 30 degrees along the Y-axis.

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
 width: 100px;
 height: 100px;
 margin: 50px;
 background-color: lightblue;
 border: 1px solid black;
}
</style>
</head>
<body>

<div></div>

</body>
</html>
```

4. Add a 2 second transition effect for width changes of the <div> element.

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
 width: 100px;
 height: 100px;
 background: red;
}

div:hover {
 width: 300px;
}
</style>
</head>
<body>

<div></div>

<p>Hover over the div element above.</p>

</body>
</html>
```

5. Specify that the transition of the <div> element should have a "0.5" second delay before starting.

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

```
<head>
<style>
div {
 width: 100px;
 height: 100px;
 background: red;
 transition: width 2s;
}

div:hover {
 width: 300px;
}
</style>
</head>
<body>

<div></div>

<p>Hover over the div element above.</p>
</body>
</html>
```

6. Using the transition shorthand property, specify width changes for the <div> element should have: "2" second duration, "ease-in-out" speed curve, and a "0.5" second delay before starting.

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
 width: 100px;
 height: 100px;
 background: red;
}

div:hover {
 width: 400px;
}
</style>
</head>
<body>

<div></div>

<p>Hover over the div element above.</p>

</body>
</html>
```

7. Add a 2 second animation for the <div> element, which changes the color from red to blue. Call the animation "example"

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

```
<head>
<style>
div {
 width: 100px;
 height: 100px;
 background-color: red;
}
</style>
</head>
<body>

<div></div>

</body>
</html>
```

8. Specify that the animation of the <div> element should have a "1" second delay before starting.

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
 width: 100px;
 height: 100px;
 position: relative;
 background-color: red;
 animation-name: example;
 animation-duration: 2s;
}

@keyframes example {
 0% {background-color: red; left:0px;}
 50% {background-color: yellow; left:200px;}
 100% {background-color: red; left:0px;}
}
</style>
</head>
<body>

<div></div>

</body>
</html>
```

9. Specify that the animation of the <div> element should alternate between running forwards and backwards.

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
 width: 100px;
 height: 100px;
```

```
  position: relative;
  background-color: red;
  animation-name: example;
  animation-duration: 4s;
  animation-iteration-count: infinite
}

@keyframes example {
 0% {background-color: red; left:0px; top:0px;}
 25% {background-color: blue; left:0px; top:200px;}
 50% {background-color: green; left:200px; top:200px;}
 75% {background-color: yellow; left:200px; top:0px;}
 100% {background-color: red; left:0px; top:0px;}
}
</style>
</head>
<body>

<div></div>
```