**IMPLEMENTATION OF HTML FORM AND CSS ANIMATION.**

**OBJECTIVE**

To implement and familiarize with HTML form and CSS animation.

**THEORY**

**HTML FORM**

In HTML we have <form> tag to create a form. It has method as attribute which may be either POST or GET. Another attribute of form is action in which we pass the URL or route where the form is submitted. Inside form tag , there may be many <input> tags to get information from the users or client. The input type may be of text, radio, checkbox, description, submit etc. Finally, there is a submit button which on Click pass the value to the URL on the action.

**CSS Animation**

To animate the elements of HTML, we can give animation name, duration, iteration-count etc. Finally the animation is defined as:-

@keyframes animation-name {

//Css codes here

}

**ACTIVITIES**

For animation:

First, we created a html file with a div in the body of it. Then we created a external Css file and link it in the head of html file. Inside Css, we give color, position, padding, animation-name, animation, duration, and animation-iteration-count to the div. After that we define a animation using key frames. Inside it we give necessary Css properties at 0%, 25%, 50%, 75%, 100%. Finally we are able to animate the div.

For Form:

Similarly, we create a html file and Css file and link them. Inside html body we make a div with class form. Inside div we created a form with input for Full Names, Address, Email, Gender, Country, Hobbies, Description, and a submit button.

**CODE**

25%{

background-color: blue;

left: 200px;

top: 0;

transform: rotate(90deg);

opacity: 0.8;

border-radius: 50%;

}

50%{

background-color: green;

left: 200px;

top: 200px;

transform: rotate(180deg);

transform: scale(2);

opacity: 0.6;

}

75%{

background-color: yellow;

left: 0;

top: 200px;

transform: rotate(270deg);

opacity: 0.4;

}

100%{

background-color: red;

left: 0;

top: 0;

transform: rotate(360deg);

opacity: 1;

}

}

**For Animation**

**HTML code :**

<!DOCTYPE html>

<html lang="en">

<head>

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

<title>Animate</title>

</head>

<body>

<div>Block</div>

</body>

</html>

**CSS code:**

body{

margin: 0;

padding: 0;

}

div{

background-color: red;

position: absolute;

padding: 3%;

animation-name: animate;

animation-duration: 4s;

animation-iteration-count: infinite;

}

@keyframes animate {

0%{

background-color: red;

left: 0;

top: 0;

}

**For Form**

**HTML code :**

<!DOCTYPE html>

<html lang="en">

<head>

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

<title>Form</title>

</head>

<body>

<div class="form">

<h2>Enter Details</h2>

<form action="" method="POST">

Full Name: <input type="text" name="fullname"><br><br>

Address: <input type="text" name="address"><br><br>

Email: <input type="email" name="email"><br><br>

Gender:

<input type="radio" name="gender" value="1" checked> Male

<input type="radio" name="gender" value="0"> Female <br><br>

Country:

<select name="country" id="">

<option value="Nepal">Nepal</option>

<option value="India">India</option>

<option value="China">China</option>

</select><br><br>

Hobbies:

<input type="checkbox" name="hobbies[]" value="ftbl"> Football

<input type="checkbox" name="hobbies[]" value="crct"> Cricket

<input type="checkbox" name="hobbies[]" value="tt"> Table Tennis <br><br>

Description: <br>

<textarea name="descrition" id="" cols="50" rows="3"></textarea><br><br>

<input type="submit" name="submit" value="Submit">

</form>

</div>

</body>

</html>

**CSS code:**

body{

margin: 0;

padding: 0;

}

.form {

padding: 10% 30%;

}

**SUMMARY/PROBLEM FACED**

We are able to animate a div using the Css animation. Also make a form with various input types by which user can provide the necessary data.

The main problem faced was to give the exact animation properties and adjust the padding.

**LAB INSTRUCTOR COMMENTS**