**A.1 Aim: To implement CSS transitions, transforms and animations on static website created in Program 4.**

1. Design of static website with CSS transitions, transforms and animations

**A.2 Prerequisite:**

HTML, CSS

**A.3 Outcome:**

After successful completion of this experiment students will be able to

1. Understand and implement CSS properties to make web pages look better.

**A.4 Theory:**

* CSS is a language that describes the style of a HTML document.
* CSS describes how HTML elements should be displayed.
* CSS stands for Cascading Style Sheets
* CSS syntax

Selector , declaration

Ex: h1 Selector

{

font-size:12 Declaration

}

* CSS transforms allow you to translate, rotate, scale, and skew elements.
* CSS supports following 2D transformation methods:

translate()

rotate()

scale()

skewX()

skewY()

matrix()

* CSS transitions allows you to change property values smoothly (from one value to another), over a given duration.
* To create a transition effect, you must specify two things:
* CSS property you want to add an effect to
* Duration of the effect
* Ex:

div {  
    width: 100px;  
    height: 100px;  
    background: red;  
    -webkit-transition: width 2s; /\* Safari \*/  
    transition: background 2s;

transition-delay:4s;  
 }

div:hover {  
    background:blue;  
}

* An animation lets an element gradually change from one style to another.
* We write animations under @keyframes
* This rule specifies what styles the element will have at certain times.
* Next step is to bind an animations to an element

Ex:

@keyframes example {  
  from {background-color: red;}  
  to {background-color: yellow;}  
}

div {  
  width: 100px;  
  height: 100px;  
  background-color: red;  
  animation-name: example;  
  animation-duration: 4s;  
}

**Note: It is left to discretion of students to decide the topic to make website on. Also students are given freedom to learn more tags and implement it much better to improve UI of the web page.**

**PART B**

**(PART B: TO BE COMPLETED BY STUDENTS)**

**(Students must submit the soft copy as per following segments within two hours of the**

**practical. The soft copy must be uploaded on the Blackboard or emailed to the concerned lab in charge faculties at the end of the practical in case the there is no Black board access available)**

**B.1 Software Code written by student:**

**(Students must paste the code here)**

**B.2 Input and Output**

**(Students must paste input and output here)**

**B.3. Observations and Learning**

**(Students are expected to comment on the output obtained with clear observations and learning for each task/ sub part assigned**

**B.4. Conclusion**

**(Students must write the conclusion as per the attainment of individual outcome listed above and learning/observation noted in Sec. B.3)**