Name: Ayush Patel

Enrolment No: CS 32

Class A Batch 13

Institute of Computer Technology

B. Tech Computer Science and Engineering

Sub: Internet Programming (2CSE101)

Practical 14 : To study the CSS Advanced Properties like Rounded Corners, Border Images, Background, Gradient, Shadows, @font-face rule, Transforms, Transitions, Animations & Tool Tips. Apply CSS through External File for each exercise.

Exercises:

1. Design a page of HTML with one set of <h1> & <p> tags. H1 and P tag must contain details about Bill Gates who was an CEO of Microsoft some years ago. Apply CSS code with following requirements :

   - Set <h1> by name and <p> by its details. Also set any text color to <p> and <h1> but both must not have same color.
   - Set background color to blue to both <h1> & <p>.
   - Make <h1> to be rounded from corners.
   - Rotate <h1> on hover by 90 degree and <p> by 180 degree in duration 3 seconds.
   - Use "ease-in" as timing function while transition.
   - Download any Google Font and apply to <p> tag using font-face rule.

Code:

```html
<html>
<head>
<title>Practical 14.1</title>
<link rel="stylesheet" type="text/css" href="p14q1.css">
</head>
<body>
<center><h1 id="back1">Bill Gates</h1></center><br>
<div>
<p id="back2">Gates was born and raised in Seattle, Washington. In 1975, he and Allen founded Microsoft in Albuquerque, New Mexico. It became the world's largest personal computer software company.[5][a] Gates led the company as chairman and CEO until stepping down as CEO in January 2000, succeeded by Steve Ballmer, but he remained chairman of the board of directors and became chief software architect.[8] During the late 1990s, he was criticized for his business tactics, which have been considered anti-competitive. This opinion has been upheld by numerous court rulings.[9] In June 2008, Gates transitioned to a part-time role at Microsoft and full-time work at the Bill & Melinda Gates Foundation, the private charitable foundation he and his then-wife, Melinda Gates, established in 2000.[10] He stepped down as chairman of the board of Microsoft in February 2014 and assumed a new post as technology adviser to support the newly appointed CEO Satya Nadella.[11] In March 2020, Gates left his board positions at Microsoft and Berkshire Hathaway to focus on his philanthropic efforts on climate change, global health and development, and education.[12]</p>
</div>
</body>
</html>
```
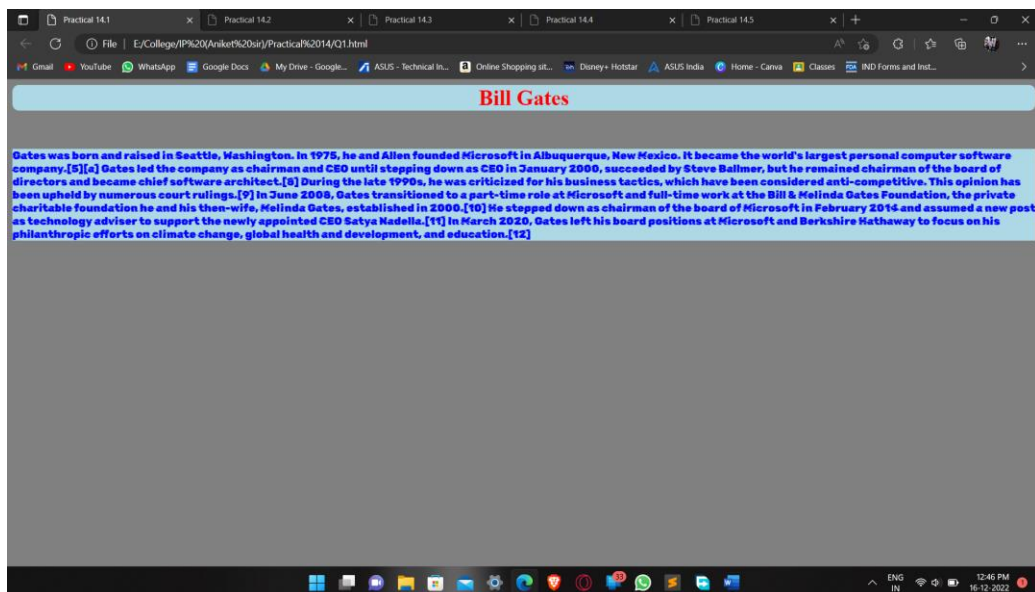
CSS code:

```css
@font-face
{
        font-family:dev;
        src:url(RubikGlitch-Regular.ttf);
}
body{
        background-color: grey;
}
h1
{
        color:red;
}
p
```

```css
{
        color:blue;
}
#back1
{
        background-color:#ADD8E6;
        border-radius:10px;
}
#back1:hover
{
        transform: rotate(90deg);
        transition-duration: 3s;
        transition-timing-function: ease-in;
}
#back2
{
        background-color:#ADD8E6;
}
#back2:hover
{
        transform: rotate(180deg);
        transition-duration: 3s;
        transition-timing-function: ease-in;
}
div
{
        font-family:dev;
}
```

Output:

2. Design a page of HTML with one <div> tag and one <p> tag inside it. This <p> must contain details about your IP Subject Faculty i.e. what you think about them and how they teach. Apply CSS code with following requirements :
   - Set background color to blue of <div> tag and text color to white of <p>.
   - Apply shadow of gray color to <div> tag.
   - Download any Google Font and apply to <p> tag using font-face rule.
   - On hover of <div>, rotate it by 135 degree around its Z-axis.
   - Set padding to <div> by value 10px to left and right side and 5px to top and bottom.
   - Apply rounded corners by value 20px to <div> tag.

Code:

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="p14q2.css">
<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Trirong">
</head>
<title>Practical 14.2</title>
<body>
<div id="P">
<center><h2>IP Faculty</h2></center>
</div>
<p>
Teaching is one of the noblest professions anyone can opt for, and those who do it are called teachers. Teachers are often very dedicated and knowledgeable, and they gladly pour their knowledge for the better education of children.<br>
He also gives formal education to students, along with informal education. A teacher is the most important need of every child. He is also the most important contributor to making people good citizens. The personality of a teacher is an inspiration to the whole world.
Knowledge is the most significant factor in the growth of any society. Knowledge is inaccessible without a good teacher. The Hindu mythologies depict that the teacher is much above God. Every successful person was guided by a good teacher someday.
</p>
</body>
</html>
```

CSS:

```
body
{
background-color: grey;
```

```css
font-family:"Trirong", serif;
font-size: 28px;
}

h2
{text-shadow: 2px 2px #FF0000;
}

#P
{border-radius:20px;
background-color:#00bfff;
padding-top: 5px;
padding-right: 10px;
padding-bottom: 5px;
padding-left: 10px;
transition: width 2s, height 2s, transform 3s;
transition-timing-function: linear;
transition-timing-function: ease-in;
}

#P:hover
{transform: rotateZ(135deg);
}

p{
border-radius:20px;
background-color:black;
color:white;
transition: width 2s, height 2s, transform 3s;
transition-timing-function: linear;
transition-timing-function: ease-in;
}

p:hover
{transform: rotate(5deg);
}
```
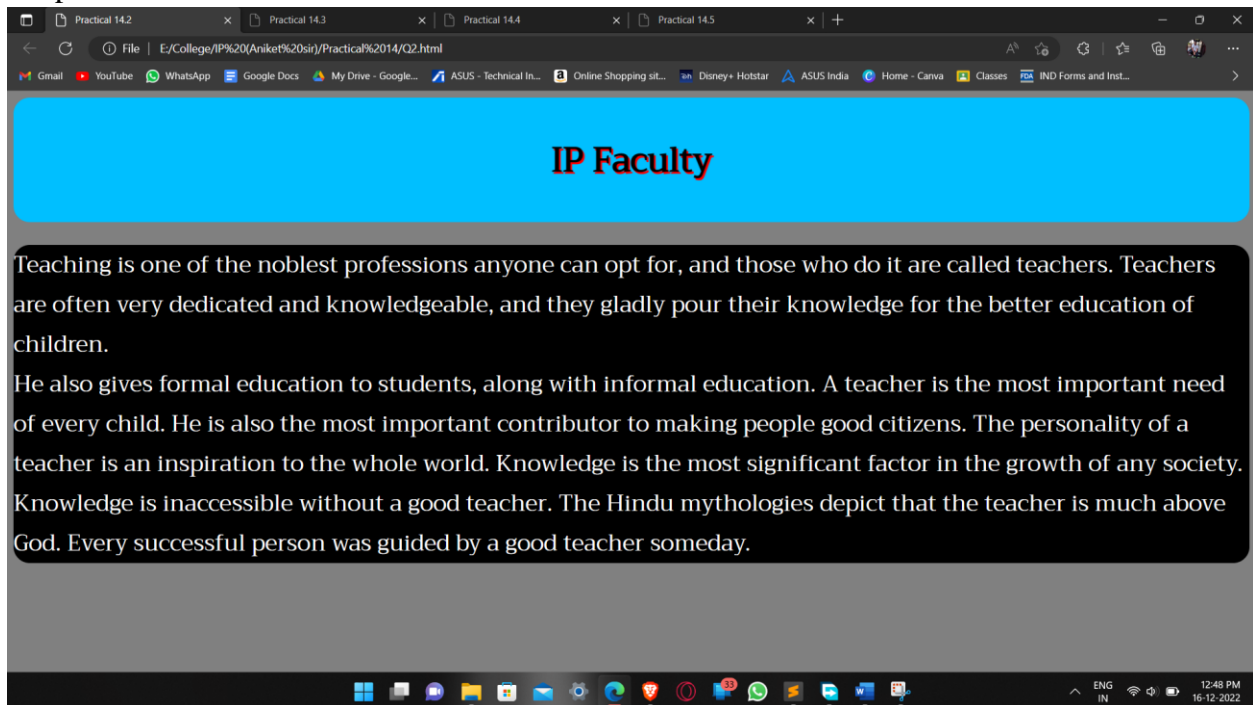
Output:

3. Design an HTML page with one set of <h1> & <p> tags. H1 must contain "IP" as name and P tag should contain details about ICT College of Ganpat University. Apply CSS code with following requirements :
   - Create a tool-tip on hover to <h1> tag and display "Internet Programming".
   - Take 2 background images and apply to <body> i.e one image to be displayed on full page and one image of any tree to fixed on top right corner without repetition.
   - Set padding 20px and margin 10px to <div>
   - Apply box-shadow to <div> tag of any appropriate color.
   - On hover to <div> tag, move that tag by 30px from left and 50px from top smoothly by taking duration of 5s.

Code:

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="p14q3.css">
<title>Practical 14.3</title>
</head>
<div id="body1">
<body>
<div class="tooltip"><h1>IP</h1>
<span class="tooltiptext">Internet Programming</span>
```

```
</div>
<div id="P">
<p>Ganpat University and the township of Ganpat Vidyanagar, a high-tech education campus is a
joint initiative, purely philanthropic in nature, by a large number of industrialists and technocrats,
noble farmers and affluent businessmen for the mission of "Social Upliftment through Education".
The University is established by the State Government by the enactment of Act No.19/2005 on
12th April 2005. It is approved under section 2(f) by the University Grants Commission (UGC).
In consideration of its contribution to the Education in a short period of time, the University has
been given Permanent Membership in renowned Academic & Industry Associations, such as the
Association of Indian Universities (AIU), Association of Commonwealth Universities (ACU),
Federation of Indian Chambers of Commerce and Industry(FICCI), All India Management
Association (AIMA), Confederation of Indian Industry(CII), International Association of
Universities (IAU), Associated Chambers of Commerce and Industry of India (ASSOCHAM),
Association of the Universities of Asia and the Pacific (AUAP), Recognized by Department of
Scientific and Industrial Research (DSIR), Govt. of Gujarat appointed Start-up Nodal Institute,
Centre for Entrepreneurship Development (CED), Student Start-up & Innovation Policy (SSIP),
National Centre for Management of Agricultural Extension (MANAGE).<br>

<br>Ganpat University offers various unique, quality, industry-linked and sector-focused
Diploma, Undergraduate, Postgraduate and Research level programs (Professional and Non-
professional) in the field of Engineering, Management, Computer Applications, Pharmacy,
Sciences, Commerce & Social Science, Architecture, Design & Planning, Maritime Studies,
Nursing, & Agriculture etc.A1 Graded B. Tech. in Marine Engineering approved by Directorate
General of Shipping (Ministry of Shipping), Govt. of India;<br>
 1) B. Tech. (CSE) in Cloud Based Applications, Big Data & Analytics, and Cyber Security in
active
collaboration with IBM;<br>
2) PG Diploma in Enterprise Resource Planning Systems, Business Analytics, and in Project
Management
in academic collaboration with Victoria University, Australia;<br>
3) Collaborative programs in association with Lincoln University, USA<br>
4)  B.Sc. and M.Sc. programs in Food Technology
Most specialised (sector/industry/technology focused) programs in Management, Computer
Science,
Engineering, Pharmacy, and Sciences;<br>
5) MBA (Business Analytics) in association with SAS
</div></p>
</div></body>
</html>
```
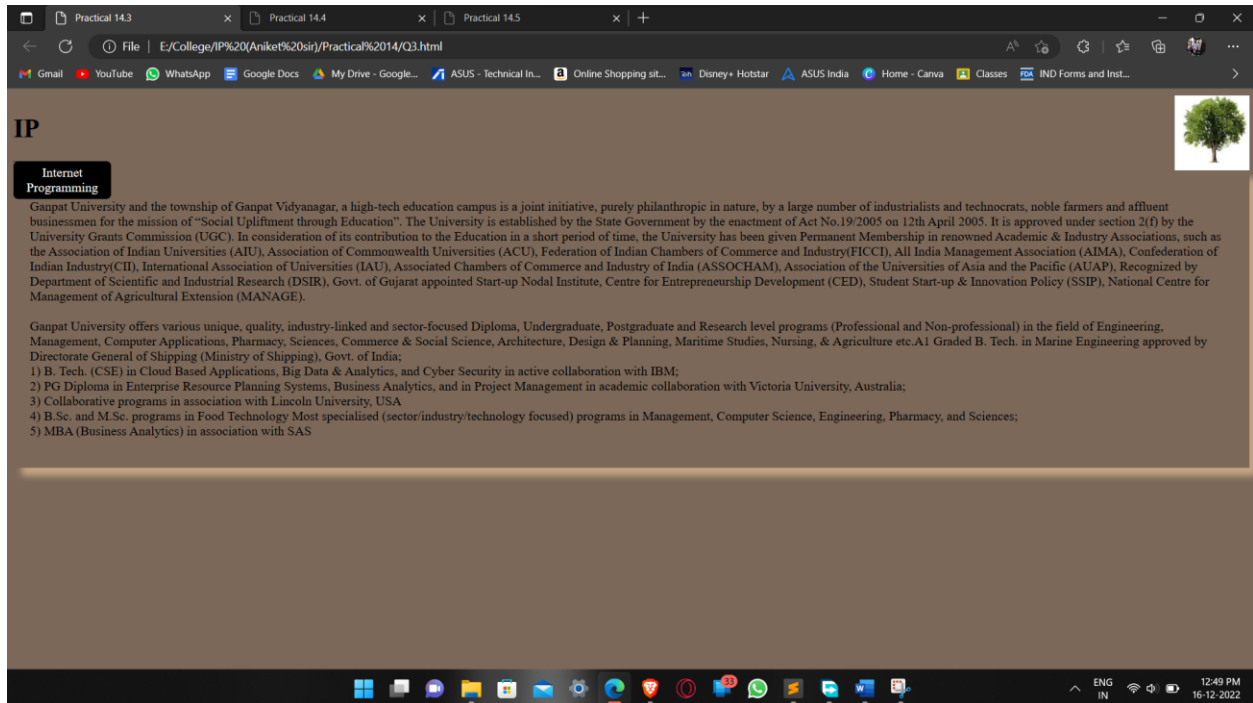
```css
CSS:
#body1{
  background-image:url(tree.jfif);
  background-position:right top;
  background-repeat:no-repeat;
  background-attachment: fixed;
 background-size: 100px 100px;
 }
body{background-image: url('3.jpeg');
 background-size: cover;
 background-position: center;
 background-attachment: fixed;
 }
#P{
margin-top: 10px;
padding: 20px;
box-shadow: 10px 10px 8px #C4A484;
}
#P:hover{
position:absolute;
top:50px;
left:30px;
}

.tooltip {
  position: relative;
  display: inline-block;
  border-bottom: 1px dotted black;
}
.tooltip .tooltiptext {
  visibility: hidden;
  width: 120px;
  background-color: black;
  color: #fff;
  text-align: center;
  border-radius: 6px;
  padding: 5px 0;
  position: absolute;
  z-index: 1;
}
```

```css
.tooltip:hover .tooltiptext {
  visibility: visible;
}
```

Output:

4. Create an animation for changing any 10 colors in background of <div> tag having width 300px and height 300px with default color blue positioned in center of page for duration 50 seconds.
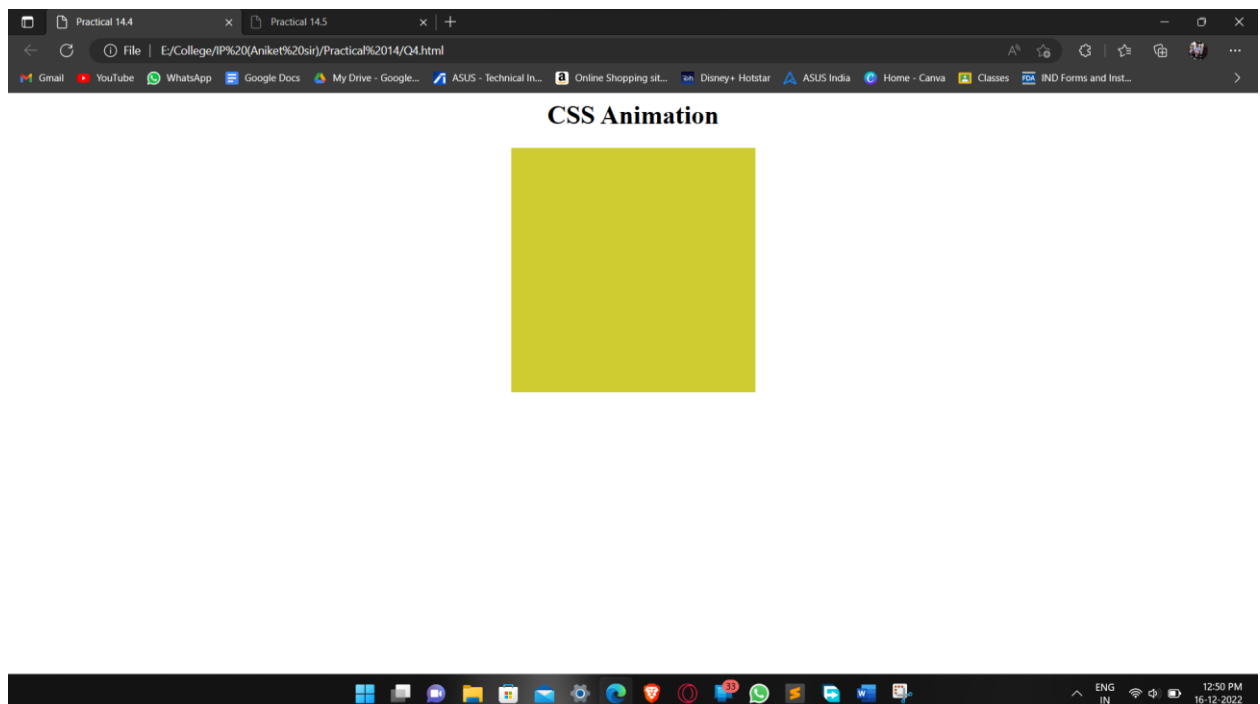
Code:

```html
<html>
<head>
<title>Practical 14.4</title>
<link rel="stylesheet" type="text/css" href="p14q4.css">
</head>
<body>
<center><h1>CSS Animation</h1>
<div></div></center>
</body>
</html>
```

CSS:
div{
  width:300px;
  height:300px;
  background-color:blue;
  animation-name:kekw;
  animation-duration: 50s;
}

@keyframes kekw{
  0% {background-color: blue;}
10% {background-color: yellow;}
20%{background-color: blue;}
30%{background-color: green;}
40%{background-color:orange;}
50%{background-color:cyan;}
60%{background-color:purple;}
70%{background-color:lime;}
80%{background-color:violet;}
90%{background-color:black;}
}

Output:

5. Consider a web page where you put an image of size 500px X 500px in center. Now create an animation such that after interval of every 3 seconds image gets changed automatically. Take 5 images that will repeat itself after every one round for infinite times

Code:

```
<html>
<head>
<title>Practical 14.5</title>
<link rel="stylesheet" type="text/css" href="p14q5.css">
</head>
<body>

<center><h1>CSS Animation</h1>
<div></div></center>
</body>
</html>
```

CSS:

```
div{
  width:500px;
  height:500px;
  background-color:blue;
  animation-name:kekw;
  animation-duration: 3s;
 animation-iteration-count: infinite;
}

@keyframes kekw{
  0% {background-image:url("1.jpg");}
25% {background-image:url("2.jpg");}
50%{background-image:url("3.jpeg");}
75%{background-image:url("4.jpeg");}
100%{background-image:url("5.jpg");}
}
```