Lab 03
Displaying Graphics and CSS3 Animation&
Creating Navigational Aids and Division-Based Layout

A.   OBJECTIVES

- Using CSS3 transform and transition.
- Create Navigation.
- Create slideshow and drop down menu.

B.   STEP BY STEP EXERCISES

1.   Create a menu as below

Create LeftMenu.css file with the following code:

```css
@charset "utf-8";
.menu div{
    width: 150px;
    height: 32px;
    background: -webkit-linear-gradient(top, #333, #999, #000) repeat-x;
    background: -o-linear-gradient(top, #333, #999, #000) repeat-x;
    background: -ms-linear-gradient(top, #333, #999, #000) repeat-x;
    background: -moz-linear-gradient(top, #333, #999, #000) repeat-x;
    border-radius: 20px 20px 0px 0px;
    color: #fff;
    font-weight: bold;
    text-align: center;
    vertical-align: middle;
    display: table-cell;
    text-transform: uppercase;
}
.menu ul {
    list-style: inside url(../img/bullet.png);
    box-shadow: 5px 5px 10px #000;
    border: 1px solid #000;
    width: 148px;
    margin: 0px;
    padding: 0px;
}
.menu li {
    padding: 5px;
    width: 138px;
    cursor: pointer;
    text-transform: capitalize;
}
.menu li:hover {
    background-color: #ff9;
    font-weight: bold;
    color: #f00;
}
```

Create file .html to show such as Figure 3.1

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Left menu</title>
<link rel="stylesheet" type="text/css" href="css/LeftMenu.css" />
</head>
<body>
<div class="menu">
    <div>menu</div>
    <ul>
        <li>home</li>
        <li>categories</li>
        <li>contact</li>
        <li>about us</li>
    </ul>
</div>
</body>
</html>
```
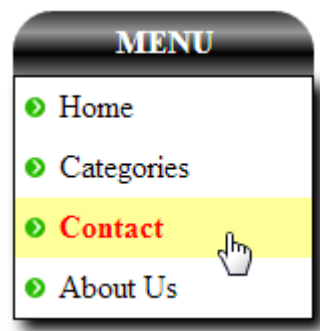

Figure 3.1

2.   Create drop down menu using CSS3 as below

Figure 3.2

```html
<html>
<head>
<meta charset="utf-8" />
<title>mainmenu</title>
<style type="text/css">
#mnuMain {
    display: block;
    width: 800px;
    height: 30px;
    padding: 5px;
    margin: 0px;
    border: 1px solid rgb(16,96,192);
    background-image: -webkit-gradient(linear, 0% 100%, 0% 0%, from(rgb(16,96,192)), to(rgb(96,192,255)));
    background-image: -moz-linear-gradient(bottom,top,from(rgb(16,96,192)), to(rgb(96,192,255)));
    z-index: 150;
}
#mnuMain ul {
    float:left;
    list-style: none;
    padding: 0px;
    margin: 0px;
    z-index: 150;
}
#mnuMain ul li {
    float: left;
    padding: 0px;
    margin: 0px;
}
#mnuMain li a {
    display: block;
    color: black;
    font-weight: bold;
    text-decoration: none;
    padding: 5px 10px;
    margin: 0px;
}
.
```
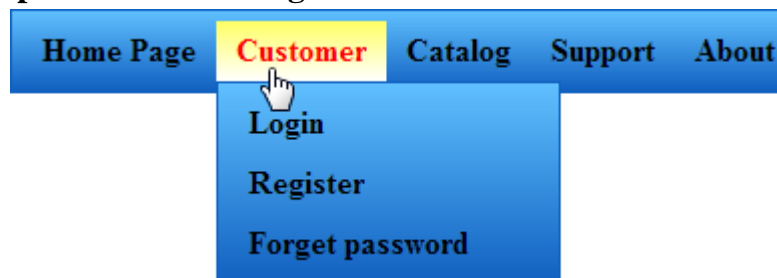
```css
#mnuMain li:hover {
    color: #ff0000;
    background-image: -webkit-gradient(linear, 0% 0%, 0% 100%, from(rgb(255,255,100)), to(rgb(255,255,255)));
    background-image: -moz-linear-gradient(top,bottom,from(rgb(255,255,100)), to(rgb(255,255,255)));
}
#mnuMain li:hover > a {
    color: #ff0000;
}
#mnuMain li ul {
    position: absolute;
    padding: 5px;
    margin: 0px;
    border: 1px solid rgb(16,96,192);
    background-image: -webkit-gradient(linear, 0% 100%, 0% 0%, from(rgb(16,96,192)), to(rgb(96,192,255)));
    background-image: -moz-linear-gradient(bottom,top,from(rgb(16,96,192)), to(rgb(96,192,255)));
    padding: 5px;
    display: none;
    z-index: 150;
}
#mnuMain li:hover ul {
    display: block;
}
#mnuMain ul li ul li {
    width: 10em;
    float: none;
}
</style>
</head>
```

```
<body>
    <div id="mnuMain">
        <ul>
            <li><a href="#">Home Page</a></li>
            <li><a href="#">Customer</a>
                <ul>
                    <li><a href="#">Login</a></li>
                    <li><a href="#">Register</a></li>
                    <li><a href="#">Forget password</a></li>
                </ul>
            </li>
            <li><a href="#">Catalog</a>
                <ul>
                    <li><a href="#">Books</a></li>
                    <li><a href="#">Flowers</a></li>
                    <li><a href="#">Foods</a></li>
                    <li><a href="#">Mobikes</a></li>
                </ul>
            </li>
            <li><a href="#">Support</a>
                <ul>
                    <li><a href="#">Online support</a></li>
                    <li><a href="#">Contact</a></li>
                </ul>
            </li>
            <li><a href="#">About</a></li>
        </ul>
    </div>
</body>
</html>
```

3. **Create scrolling product panel using CSS3 animation**
   Note: The scrolling will be stopped when user move the pointer over the product panel.

```
1    <!doctype html>
2    <html>
3    <head>
4    <meta charset="utf-8">
5    <title>Create scrolling product panel</title>
6    <style type="text/css">
7    .ScrollPanel {
8        width: 200px; height: 600px;
9        border: 1px solid black;
10       overflow: hidden;
11   }
12   .ScrollPanel img {
13       display: block; width: 200px; height: 200px;
14       border-top: 1px solid black;
15   }
16   .ScrollPanel img:first-child {border-top: none;}
17   .ScrollContent {
18       position: relative;
19       animation: Scrolling 15s linear infinite;
20       -o-animation: Scrolling 15s linear infinite;
21       -ms-animation: Scrolling 15s linear infinite;
22       -moz-animation: Scrolling 15s linear infinite;
23       -webkit-animation: Scrolling 15s linear infinite;
24   }
25   .ScrollContent:hover {
26       animation-play-state: paused;
27       -o-animation-play-state: paused;
28       -ms-animation-play-state: paused;
29       -moz-animation-play-state: paused;
30       -webkit-animation-play-state: paused;
31   }
32   @keyframes          Scrolling {from{top:0px;} to{top:-605px;}}
33   @-o-keyframes       Scrolling {from{top:0px;} to{top:-605px;}}
34   @-ms-keyframes      Scrolling {from{top:0px;} to{top:-605px;}}
35   @-moz-keyframes     Scrolling {from{top:0px;} to{top:-605px;}}
36   @-webkit-keyframes Scrolling {from{top:0px;} to{top:-605px;}}
37   </style>
38   </head>
39   <body>
40   <div class="ScrollPanel">
41     <div class="ScrollContent">
42         <img src="img/books.jpg" /> <img src="img/flowers.jpg" />
43         <img src="img/motobike.jpg" />
44
45         <img src="img/books.jpg" /> <img src="img/flowers.jpg" />
46         <img src="img/motobike.jpg" />
47     </div>
48   </div>
49   </body>
50   </html>
```
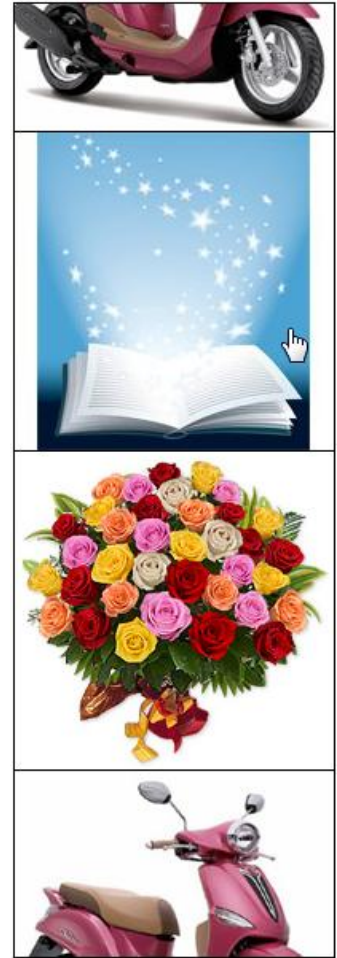

Figure 3.3

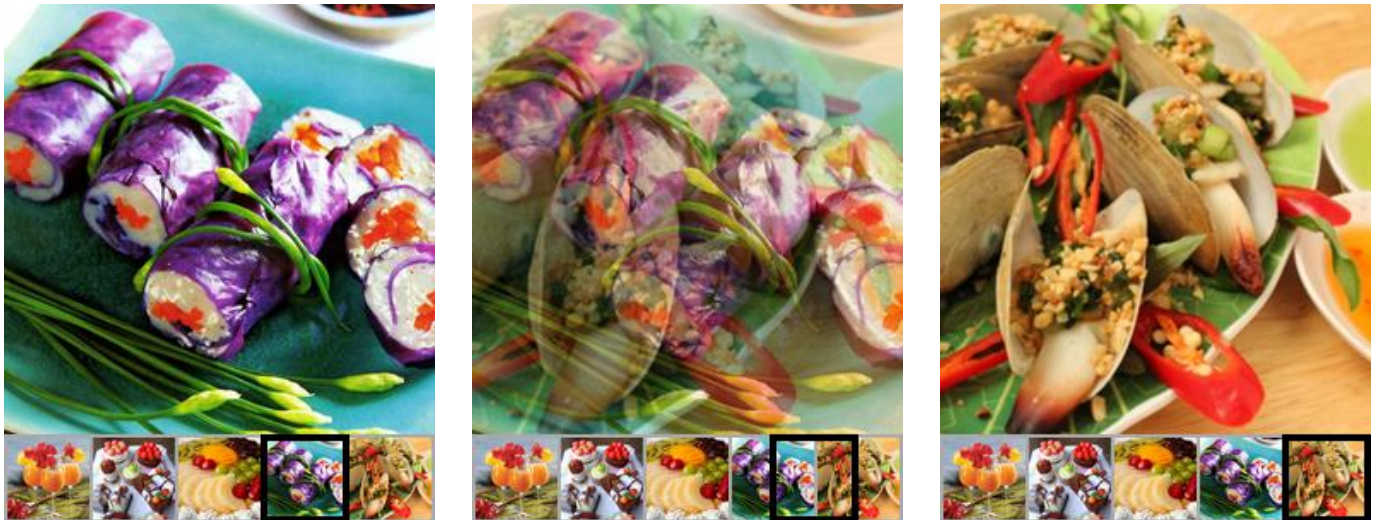## A.   EXTRA EXERCISES

1.   Using CSS3 animation to create a slideshow as below

Figure 3.4

Hint:

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>.................</title>
<style type="text/css">
.ProductThumb img {
    display: block;
    float: left;
    width:48px;
    height: 48px;
    border: 2px solid #aaa;
    border-left: none;
}
.ProductThumb img:first-child {
    border-left: 2px solid #aaa;
}
.ProductPanel .Product {
    background-size: 252px 252px;
    width: 252px;
    height: 252px;

    animation: ChangeProduct 25s linear infinite alternate;
    -o-animation: ChangeProduct 25s linear infinite alternate;
    -ms-animation: ChangeProduct 25s linear infinite alternate;
    -moz-animation: ChangeProduct 25s linear infinite alternate;
    -webkit-animation: ChangeProduct 25s linear infinite alternate;
}
```

```css
.ProductPanel .ThumbBox {
    position: relative;
    border: 4px solid #000;
    width: 44px;
    height: 44px;

    animation: MoveThumbBox 25s linear infinite alternate;
    -o-animation: MoveThumbBox 25s linear infinite alternate;
    -ms-animation: MoveThumbBox 25s linear infinite alternate;
    -moz-animation: MoveThumbBox 25s linear infinite alternate;
    -webkit-animation: MoveThumbBox 25s linear infinite alternate;
}
@keyframes MoveThumbBox {
    0%   {left: 0px;}   18% {left: 0px;}
    20% {left: 50px;}  38% {left: 50px;}
    40% {left: 100px;}58% {left: 100px;}
    60% {left: 150px;}78% {left: 150px;}
    80% {left: 200px;}100%{left: 200px;}
}
@-o-keyframes MoveThumbBox {
    0%   {left: 0px;}   18% {left: 0px;}
    20% {left: 50px;}  38% {left: 50px;}
    40% {left: 100px;}58% {left: 100px;}
    60% {left: 150px;}78% {left: 150px;}
    80% {left: 200px;}100%{left: 200px;}
}
@-ms-keyframes MoveThumbBox {
    0%   {left: 0px;}   18% {left: 0px;}
    20% {left: 50px;}  38% {left: 50px;}
    40% {left: 100px;}58% {left: 100px;}
    60% {left: 150px;}78% {left: 150px;}
    80% {left: 200px;}100%{left: 200px;}
}

@-moz-keyframes MoveThumbBox {
    0% {left: 0px;}  18% {left: 0px;}
    20% {left: 50px;} 38% {left: 50px;}
    40% {left: 100px;}58% {left: 100px;}
    60% {left: 150px;}78% {left: 150px;}
    80% {left: 200px;}100%{left: 200px;}
}
@-webkit-keyframes MoveThumbBox {
    0% {left: 0px;}  18% {left: 0px;}
    20% {left: 50px;} 38% {left: 50px;}
    40% {left: 100px;}58% {left: 100px;}
    60% {left: 150px;}78% {left: 150px;}
    80% {left: 200px;}100%{left: 200px;}
}
@keyframes ChangeProduct {
    0% {background-image: url(img/1.jpg);}18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);}38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);}58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);}78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);}100%{background-image: url(img/5.jpg);}
}
@-o-keyframes ChangeProduct {
    0% {background-image: url(img/1.jpg);}18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);}38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);}58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);}78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);}100%{background-image: url(img/5.jpg);}
}
```

```
@-ms-keyframes ChangeProduct {
    0%   {background-image: url(img/1.jpg);}18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);}38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);}58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);}78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);}100%{background-image: url(img/5.jpg);}
}
@-moz-keyframes ChangeProduct {
    0%   {background-image: url(img/1.jpg);}18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);}38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);}58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);}78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);}100%{background-image: url(img/5.jpg);}
}
@-webkit-keyframes ChangeProduct {
    0%   {background-image: url(img/1.jpg);}18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);}38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);}58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);}78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);}100%{background-image: url(img/5.jpg);}
}
</style>
</head>

<body>
<div class="ProductPanel">
    <div class="Product"> </div>
    <div class="ProductThumb">
        <img src="img/1.jpg" />
        <img src="img/2.jpg" />
        <img src="img/3.jpg" />
        <img src="img/4.jpg" />
        <img src="img/5.jpg" />
    </div>
    <div class="ThumbBox"> </div>
</div>
</body>
</html>
```