How to implement a slider

In order to shown more than images in a slider, after my self-study and survey, there are two ways:

1. Using Java Script to control when to show one image.
2. Using CSS 3 transform property.

I selected the second way.

Firstly, I need to learn what this property is and how to use it in the CSS with my website's webpages. I got the basic knowledge from: https://www.w3schools.com/cssref/css3_pr_transform.asp.

Basically, the transform property includes translate, scale, rotate, skew, matrix and etc. I focus on how to use translate in order to move the image from virtual position: more than 100% into current correct position. The basic idea is set the container div's width with 500% in order to put all of the 5 images. And move one of them into visible position using translate.

As a result, the key CSS is as follows:

```
50    div.slider-container {
51         position: relative;
52         width: 800px;
53         height: 200px;
54         margin: 10px auto;
55         overflow: hidden;
56    }
57
58    div.loop-images-container{
59         position: absolute;
60         left: 0; top: 0;
61         width: 500%;
62         height: 100%;
63         font-size: 0;
64         transform: translate(0,0);
65         animation: loop 10s linear infinite;
66    }
67
68    img.loop-image{
69         width: 800px;
70         height: 300px;
71    }
72
73    @keyframes loop {
74         0% {transform: translate(0,0);}
75         15% {transform: translate(0,0);}
76         20% {transform: translate(-20%,0);}
77         35% {transform: translate(-20%,0);}
78         40% {transform: translate(-40%,0);}
79         55% {transform: translate(-40%,0);}
80         60% {transform: translate(-60%,0);}
81         75% {transform: translate(-60%,0);}
82         80% {transform: translate(-80%,0);}
83         95% {transform: translate(-80%,0);}
84         100% {transform: translate(0,0);}
85    }
```

How to use HTML 5 tags

According to the introduction in the class and the experience I got from the assignment, I use a couple of HTML 5 tags in this course project.

Firstly, the main navigation menu is implemented with a nav tag as follows:

```html
<nav class="mainMenu">
    <ul class="mainUL">
        <li>
            <a href="index.html">HomePage</a>
        </li>
        <li>
            <a href="products.html">Products</a>
        </li>
        <li>
            <a href="about.html">About</a>
        </li>
        <li>
            <a href="contact.html">Contact</a>
        </li>
    </ul>
```

The content in the different webpages are implemented with an article tag as follows:

```html
<article class="mainArticle2">
    <h3>Other entity-specific content</h3>
    <!-- using HTML5 semantic document: section divi
    <p>Generated from https://www.lipsum.com/feed/ht
</article>
```

In order make the website available in different devices: PC, mobile or pad, the width property are set with percentage rather than with absolute positions as follows:

```css
188  div.product1{
189      display: inline-block;
190      width:33%;
191      margin:0px;
192      padding:0px;
193      border:0px;
194
195  }
196  div.product2{
197      display: inline-block;
198      width:33%;
199      margin:0px;
200      padding:0px;
201      border:0px;
202
203  }
```