In the first module, we have two line element with st0 and st1 classes. I add the stroke-dasharray property to both declaration blocks. Despite the values of the stroke-dasharray properties are almost the same we got different results.

1.1 Change the value of the stroke-dasharray that is inside the declaration block of the st1 class selector. The <array> should consist of at least 4 values.

10%

30%

50%

100%
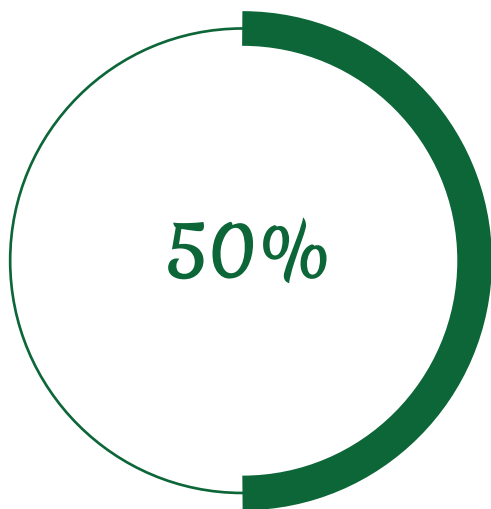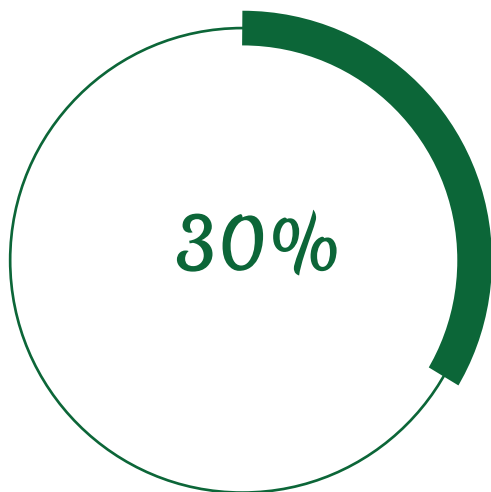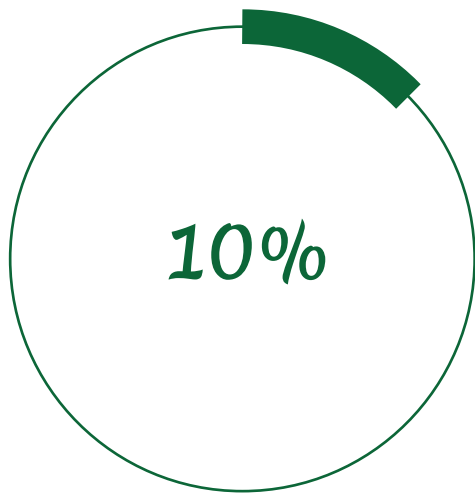
In the second module, you can see the circle that is inside the svg element. In the style.css I add four key-frames that allow us to create an animation. The 0% frame is the state of the particular element where the animation starts and 100% frame is the state of the particular element where the animation ends.

I added all the necessary styles to style.css. You should calculate the length of the segment of the circumference and animate it. To do so you should calculate the circumference length and then you should find the length of the 10%, 30%, 50%, and 100% of the circumference.

2.1 The stroke-dasharray value of the 0% keyframe should accept the two values. The first value is equal to 0px and the second value is equal to circumference length rounded to an integer. The stroke-dasharray value of the 100% keyframe should accept the two values. The first one should be calculated by a formula x is equal to percentage times circumference length. The second value is the circumference length.

To check if the animation works you should use the keyframes name as the value of the animation-name property.

STROKE-DASHARRAY
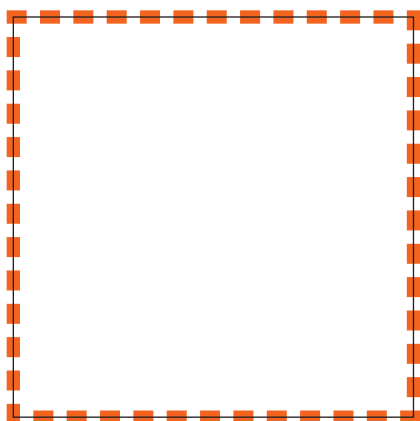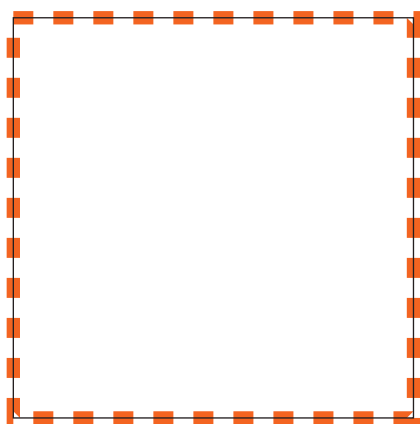
In the third module, you can see two rect elements that have two standard classes st0 and st1. I add the rect element with st1 class to show you the path of the element. I applied the styles to the rect element with st0 class inside style.css.

After I added the stroke-dasharray property I figured out that the dashes start at the beginning of the path and that means that the dashes don't reach the corners of the stroked rectangle.

3.1 You should add the stroke-linecap property with the value of square to fix this problem.

3.2 In this case, the result isn't deffer from the result what we expected. You should change the dash and gaps length to get the right result. The visible dashes should be 30px and the visible gaps should be 30px. I don't tell you that the values in the <array> will have the same values. You should figure it out on your own.

In the fourth module, I used the same code from the previous module, but I modified it slightly. I added the stroke-dasharray property and stroke-dashoffset property to the declaration block of the st1 selector. The value of the stoke-dasharray is equal to 30px 2370px and the value of the stroke-dashoffset is equal to 0 what is the initial value of the stroke-dashoffset.

4.1 Let's change the stroke-dashoffset value to -60px. As you can see the black rectangle moved to 60 pixels forward. Let's change the value to -180pixels.

4.2 Now we will move it in the opposite direction. Let's change the stroke-dashoffset value to 180px. As you could see the positive values move the dasharray pattern backward and the negative values move the dasharray pattern forward.

4.3 Let's add another rect element by copying it and put it between two rect elements. Then change its

class to st2 and create a class selector in the style.css, then copy all styles from st0 class selector. Now, you should change the stroke property value to #84151F and add stroke-dashoffset property with the value of -30px, then change the stoke-dashoffset property value of the st1 class selector to -30px.

4.4 In this part you should remove stroke-dashoffset properties from your class selectors. Add keyframes block with the following name first and add the 0%{} frame with the stroke-dashoffset property with the value of 0px. Then you should add the 100%{} frame with the stroke-dashoffset property in it. The value of the stroke-dashoffset property is equal to -2400px.

Then add keyframes directive with the name "second". Then add 0%{ stroke-dashoffset: -30px;} and 100%{stroke-dashoffset: -2430px} to the keyframe.

4.5 You should add the animate-name property with the value of first, animate-duration property with the value equal to "10s", animation-iteration-count property with the value "infinite", and animation-timing-function property that is equal to linear to st0 class selector.

4.6 You should do the same for st1 and st2, but with one exception, the animate-name property should be equal to "second".