JAVASCRIPT – semáforo.js

const img = document.getElementById( 'img'); // documento obter ElmentoPorID

const buttons =  document.getElementById( 'buttons');

let colorIndex= 0;

let intervalid= null;

const trafficLight= ( *event* ) => {

    stopAutomatic();

    turnOn[event.target.id]();

}

const nextIndex =() => colorIndex = colorIndex < 2 ? ++colorIndex : 0;

const changeColor = () => {

    const colors = ['red','yellow','green']

    const color = colors[colorIndex];

    turnOn[color]();

    nextIndex();

}

const stopAutomatic =() => {

    clearInterval ( intervalid);

}

const turnOn = {

    'red' : () => img.src ='./img/vermelho.png',

    'yellow': () => img.src ='./img/amarelo.png',

    'green' : () => img.src ='./img/verde.png',

    'automatic': () => intervalid = setInterval( changeColor, 1000)

}

buttons.addEventListener('click', trafficLight);

HTML – index.html

<!DOCTYPE *html*>

<html *lang*="en">

<head>

    <meta *charset*="UTF-8">

    <meta *name*="viewport" *content*="width=device-width, initial-scale=1.0">

    <title>Semáforo</title>

    <link *rel*="stylesheet" *href*="style.css">

</head>

<body>

    <main>

        <div>

            <img *src*="./img/desligado.png" *id*="img">

        </div>

        <div *id*="buttons">

            <button *id*="red" *class*="button">Vermelho</button>

            <button *id*="yellow" *class*="button">Amarelo</button>

            <button *id*="green" *class*="button">Verde</button>

            <button *name*="teste" *id*="automatic" *class*="button">Automático</button>

        </div>

    </main>

    <script *src*="./semaforo.js"></script>

</body>

</html>

CSS – style.css

\*{

    margin:0;

    padding:0;

    box-sizing:border-box;

}

main{

    display:flex;

    height: 100vh;

    flex-direction:column;

    align-items: center;

    justify-content:center;

    gap: 5vh;

}

*.button*{

    width: 100px;

}