SET A : MOUSE EVENTS

Problem 1:

```html
<body>
    //click

    <p>Click this document to activate the handler.</p>
    <script>
        window.addEventListener("click", () => {
            alert("You Knocked");
        });
    </script>
</body>
```

Problem 2:

```html
<body>
    //Events and DOM nodes
    <p>Click this document to activate the handler.</p>
    <script>
        window.addEventListener("click", () =>{
            console.log("You Knocked");
            document.body.style.background="grey"
        });
    </script>
</body>
```

Problem 3:

```html
<body>
    //removeEventListener

    <button type="button">Click Here</button>

    <script>
        let button = document.querySelector("button");
        function once() {
        console.log("Done.");
        button.removeEventListener("mouseover", once);
        }
        button.addEventListener("mouseover", once);
    </script>

</body>
```

Problem 4:

```html
<body>
    // Event objects
    <button>Click me any way you want</button>

    <script>
        let button = document.querySelector("button");
        button.addEventListener("mousedown", event => {
        if (event.button == 0) {
            console.log("Left button");
        } else if (event.button == 1) {
            console.log("Middle button");
        } else if (event.button == 2) {
            console.log("Right button");
        }});

    </script>
</body>
```

Problem 5:

```html
<body>
    // Mouse Events
    <button type="button">Click Here </button>
    <p>Click this document to activate the handler.</p>
    <script>
        let btn = document.querySelector("button");
        // mouse over
        btn.addEventListener("mouseover", ()=>{
            document.body.style.backgroundColor="cyan";
        })

        //mouse leave
        btn.addEventListener("mouseleave", () =>{
            document.body.style.background="white"
        });

        // mouse down
        btn.addEventListener("mousedown", () =>{
            document.body.style.background="yellow"
        });

        // mouse up
        btn.addEventListener("mouseup", () =>{
            document.body.style.background="red"
        });
    </script>
</body>
```

Problem 6:

```html
<body>
    <a href="https://google.com/">MDN</a>
    <script>
        let link = document.querySelector("a");
        link.addEventListener("click", event => {
        console.log("Lama aadi karo.");
        event.preventDefault();
        });
    </script>
</body>
```

SET B : KEYBOARD EVENTS

Problem 7:

```html
<body>
    // keydown & keyup
    <p>This page turns violet when you hold the V key.</p>
    <script>
        window.addEventListener("keydown", event => {
            if(event.key == 'v'){
                document.body.style.backgroundColor="violet";
            }
        })
        window.addEventListener("keyup", event => {
            if (event.key == 'v'){
                document.body.style.backgroundColor="yellow"
            }
        })
    </script>
</body>
```

Problem 8:

```html
<body>
    // Ctrl + Space
    <p>Press Control-Space to continue.</p>
    <button>Click</button>

    <script>
        window.addEventListener("keydown", event => {
            if (event.key == " " && event.ctrlKey){
                document.body.style.backgroundColor="yellow"
            }
        })
        window.addEventListener("keyup",event => {
            if (event.key == " " && event.ctrlKey){
```

```
                    document.body.style.backgroundColor="cyan"
            }
        })
    </script>
</body>
```

Problem 9:

```
<body>
    // Style
    <style>
        body {
        height: 200px;
        background: beige;
        }
        .dot {
        height: 8px; width: 8px;
        border-radius: 4px; /* rounds corners */
        background: blue;
        position: absolute;
        }
    </style>

    <script>
        window.addEventListener("click", event => {
        let dot = document.createElement("div");
        dot.className = "dot";
        dot.style.left = (event.pageX - 4) + "px";
        dot.style.top = (event.pageY - 4) + "px";
        document.body.appendChild(dot);
        });
    </script>
</body>
```

Problem 10:

```
<body>
    // Focus
    <p>Name: <input type="text" data-help="Your full name"></p>
    <p>Age: <input type="text" data-help="Your age in years"></p>
    <p id="help"></p>

    <script>
        let help = document.querySelector("#help");
        let fields = document.querySelectorAll("input");

        for(let field of Array.from(fields)){
            field.addEventListener("focus", event => {
                let text = event.target.getAttribute("data-help");
```

```
            help.textContent = text;
        })
    }
    field.addEventListener("blur", event => {
        help.textContent = ""
    })
</script>
</body>
```

Problem 11:

```
<body>
    // Timer
    <script>
        let ticks = 0;
        let Clock = setInterval(() => {
            console.log("tick", ticks++);
            if (ticks == 100){
                clearInterval(Clock);
                console.log("Stop!")
            }
        },1000)
    </script>
</body>
```