**SET A : MOUSE EVENTS**

**Problem 1:**

<body>

//click

    <p>Click this document to activate the handler.</p>

    <script>

        window.addEventListener("click", () => {

            alert("You Knocked");

        });

    </script>

</body>

**Problem 2:**

<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:**

<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:**

<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:**

<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:**

<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:**

<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:**

<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>