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// External JavaScript File to obtain value and compute date values

// Get and display current time
function dateCalcNow(){
    var d = new Date();
    document.getElementById("nowDate").innerHTML = '<h3 style="border:2px solid Red;">' + "Present Date & Time : " + d.toString() + "</h3>";
    // document.getElementById("nowTime").innerHTML = "Time : " + d.getTime();
    // document.getElementById("nowTime").innerHTML = "Time : " + d.getHours() + ":" + d.getMinutes() + ":" + d.getSeconds();
    var timeStringNew = timeString(d);
    document.getElementById("nowTime").innerHTML = "Time :   " + timeStringNew;
    document.getElementById("nowMonth").innerHTML = "Month : " + d.getMonth();
    document.getElementById("nowDay").innerHTML = "Day : " + d.getDate();
    document.getElementById("nowYear").innerHTML = "Year : " + d.getFullYear();
}

// Compute Time Until an Event
function dateCalcDiff() {
     var d = new Date();
     var myDate =  new Date(2021, 4,25, 12, 30, 0);
     document.getElementById("nowDate").innerHTML = '<h3 style="border:2px solid Blue;">' + "Target Date is : " + myDate.toString() + "</h3>";
     // There are 1,000 milliseconds in a second
     const millisecDay = 86400000;
     const millisecHour = 3600000;
     const millisecMinute = 60000;
     var timeDiff = myDate - d;
     var daysDiff = Math.floor(timeDiff / millisecDay);
     // var hoursDiff = Math.floor((timeDiff - (daysDiff * millisecDay))/millisecHour);
     var hoursDiff = Math.floor((timeDiff % millisecDay) / millisecHour);
     var minutesDiff = Math.floor((timeDiff % millisecHour) / millisecMinute);
     var secondsDiff = Math.floor((timeDiff % millisecMinute) / 1000);
     document.getElementById("nowTime").innerHTML = "Days Remaining : " + "   "  + daysDiff.toString();
     document.getElementById("nowMonth").innerHTML = "Hours Remaining : " + "   " + hoursDiff.toString();
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     document.getElementById("nowDay").innerHTML = "Minutes Remaining : " + minutesDiff.toString();
     document.getElementById("nowYear").innerHTML = "Seconds Remaining : " + secondsDiff.toString();
}

// Function to create a time in the hh:mm:ss format given a date value
function timeString(rawTime) {
    // Add a 0 if Hours is less than 10
    if (rawTime.getHours() < 10) {
        timeGood = "0" + rawTime.getHours().toString() +":";
    } else {
        timeGood = rawTime.getHours().toString() +":";
    }
    // Add a 0 if Minutes are less than 10
    if (rawTime.getMinutes() < 10) {
        timeGood = timeGood + "0" + rawTime.getMinutes().toString() +":";
    } else {
        timeGood = timeGood + rawTime.getMinutes().toString() +":";
    }
    // Add a 0 if Seconds are less than 10
    if (rawTime.getSeconds() < 10) {
        timeGood = timeGood + "0" + rawTime.getSeconds().toString();
    } else {
        timeGood = timeGood + rawTime.getSeconds().toString();
    }
    // Return to place called with time in a HH:MM:SS string
    return timeGood;
}

```