Assignment Details

Using moment.js - refer to documentation here: https://momentjs.com/

Questions

1. Parsing
Given the following strings:
`"13/02/2022",`
`"03/04/2022"`
`"Q3 of 2021",`
`"Tue, 22 Feb 2022"`

Write a function to display each date in "standard" `mm/dd/yyyy` format.

```
function formatAnyInputToStandardDate(input) {


}
```

2. First Monday of Year
Given a year, write a function to get the first Monday of the year. Display the date in `mm/dd/yyyy` format.

```
function getFirstMondayOfYear(year) {


}
```

3. Last Monday of Year
Given a year, write a function to get the last Monday of the year. Display the date in `mm/dd/yyyy` format.

```
function getLastMondayOfYear(year) {


}
```

4. Difference between two dates

Given two dates and two time markers, write a function to find the difference between two dates in the following format: `"x Years, X Months, X Days, X Hours, and X Minutes"`

Example:
```
differenceBetweenTwoDates("03/01/2022","13:03", "03/01/2022", "15:04")
```
Result:
```
0 Years, 0 Months, 0 Days, 2 Hours, and 1 Minute
```

```
function differenceBetweenTwoDatesAndTime(date1, time1, date2, time2){

}
```

5. Closest to Now
Write a function to generate two random dates and returns the date which is closest to right now.

6. Countdown Until 2026 in Miami
Write a function that would return the months, days, hours, minutes, and seconds until the beginning of the year in Miami.

7. Countdown Until 2026 in Qatar
Write a function that would return the months, days, hours, minutes, and seconds until the beginning of the year in Qatar

8) Time Zone Difference

Given a **date** and **two timezones** write a function to return the hour difference between the timezones

Example #1:
```
timezoneHourDifference("03/02/2022 03:45pm","America/Los_Angeles","Asia/Shanghai")
```
Result:: 8

Example #2:
```
timezoneHourDifference("03/22/2022 03:45pm","America/Los_Angeles","Asia/Shanghai")
```
Result:: 9

```
function timezoneHourDifference(dateAndTime, timezone1, timezone2)
{

}
```

9) All Days Of The Week of the Month
Given a year, month, and day-of-week, write a function to return all day-of-week of that month.

For example, if the input is `2022, 3, "Tuesday"`, then the result should be:
['3/1/2022', '3/8/2022', '3/15/2022', '3/22/2022', '3/29/2022']

```
function getAllSpecificDays(year, month, dayOfWeek){


}
```

10) Imaginary World
Imagine that the world was different and the first day of the year is March 1st.
Given a date, write a function to return which week of the year it is.

```
function getWeekOfYear(date){


}
```