Assignment 8

Question 1

Write a JavaScript function to get the current date.

Code

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <title>Document</title>
    <script>
        function getDate() {
            d = new Date();
            return d.getDate() + '-' + (d.getMonth() + 1) + '-' + d.getFullYear();
        }
    </script>
</head>

<body>

</body>

</html>
```

Output

```
>  getDate()
<·  '1-5-2022'
>  |
```

Question 2

Write a JavaScript function to get the number of days in a month.

```
Test Data :
    console.log(getDaysInMonth(1, 2012));
    console.log(getDaysInMonth(2, 2012));
    console.log(getDaysInMonth(9, 2012));
    console.log(getDaysInMonth(12, 2012));
Output :
    31
    29
    30
    31
```

Code

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <title>Month</title>
    <script>
        function getDaysInMonth(month, year) {
            var d = new Date(Number(year), Number(month), 0).getDate();
            return d;
        }
    </script>
</head>

<body>

</body>

</html>
```

Output

```
> console.log(getDaysInMonth(1, 2012));
  31                                        VM11:1
< undefined
> console.log(getDaysInMonth(2, 2012));
  29                                        VM15:1
< undefined
> console.log(getDaysInMonth(9, 2012));
  30                                        VM47:1
< undefined
> console.log(getDaysInMonth(12, 2012));
  31                                        VM51:1
< undefined
> |
```

Question 3

Write a JavaScript function to get the month name from a particular date

```
Test Data :
    console.log(month_name(new Date("10/11/2009")));
    console.log(month_name(new Date("11/13/2014")));
Output :
    "October"
    "November"
```

Code

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <script>
        function month_name(date) {
            month_arr = ["January", "February", "March", "April",
                "May", "June", "July", "August", "September", "October", "November", "
    ↪ December"];
            return month_arr[date.getMonth()];
        }
    </script>
</head>

<body>

</body>

</html>
```

Output

Question 4

Write a JavaScript program to display the current day and time in the following format.
Sample Output :
Today is : Friday.
Current time is : 4 PM : 50 : 22

Code

```
<!DOCTYPE html>
<html lang="en">

<head>

</head>

<body>
    <div id="ans">

    </div>
    <script>
        d = document.getElementById('ans')
        var a = new Date();
        day_arr = ['Sunday', 'Monday', 'Tuesday', 'Thursday', 'Friday', 'Saturday'];
        var ans = 'Today is : ' + day_arr[a.getDay()] + '<br>Current time is : ';
        if (a.getHours() > 12) {
            ans = ans + (a.getHours() - 12) + ' PM';
        } else {
            ans = ans + a.getHours() + ' AM';
        }
        ans = ans + ' : ' + a.getMinutes() + ' : ' + a.getSeconds();
        d.innerHTML = ans;
    </script>
</body>

</html>
```

Output

Today is : Sunday
Current time is : 8 PM : 8 : 8

Question 5

Write a JavaScript program to get the current date.
Expected Output :
mm-dd-yyyy, mm/dd/yyyy or
dd-mm-yyyy, dd/mm/yyyy

Code

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <title>Document</title>
    <script>
        function getDate() {
            date = new Date();
            format = document.getElementById("format").value;
            delimiter = document.getElementById("delimiter").value;
            var ans = '';
            month = date.getMonth() + 1
            month = (month < 10) ? '0' + month.toString() : month.toString();
            datee = (date.getDate() < 10) ? '0' + date.getDate().toString() : date.
    getDate().toString();

            if (format == '1') {
                ans = month + delimiter + datee + delimiter + date.getFullYear();
            }
            else if (format = '2') {
                ans = datee + delimiter + month + delimiter + date.getFullYear();
            }
            document.getElementById('ans').innerHTML = ans;
        }
    </script>
</head>

<body>
    Choose a format:

    <select name="format" id="format">
        <option value="1">mm-dd-yyyy</option>
        <option value="2">dd-mm-yyyy</option>
    </select>

    Delimiter:

    <select name="delimiter" id="delimiter">
        <option value="-">-</option>
        <option value="/">/</option>
    </select>

    <button onclick="getDate()">Get Date</button>
    <div id="ans"></div>
</body>

</html>
```

Output

Choose a format: [mm-dd-yyyy ∨] Delimiter: [- ∨] [Get Date]
05-01-2022

Question 6

Write a JavaScript function to get difference between two dates in days.

```
Test Data :
    console.log(date_diff_indays('04/02/2014', '11/04/2014'));
    console.log(date_diff_indays('12/02/2014', '11/04/2014'));
Output :
    216
    -28
```

Code

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <script>
        function date_diff_indays(date1, date2) {
            d1 = new Date(date1);
            d2 = new Date(date2)
            d3 = (d2 - d1) / (1000 * 60 * 60 * 24)
            return d3;
        }
    </script>
</head>

<body>

</body>

</html>
```

Output

```
> console.log(date_diff_indays('04/02/2014', '11/04/2014'));
  216                                                          VM11:1
< undefined
> console.log(date_diff_indays('12/02/2014', '11/04/2014'));
  -28                                                          VM15:1
< undefined
> |
```