

17CS2015 Web Technology Lab

Ex. 6. JavaScript – Timer Functions and Objects

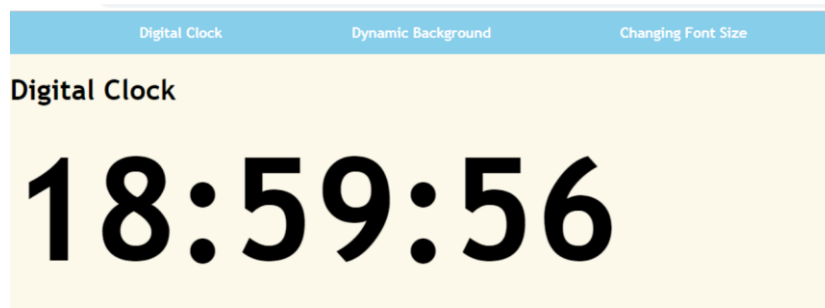
URK17CS127

Date:

1. Write JavaScript code to display digital clock.

```
<h1>Digital Clock!</h1>
<span id="time"></span>.
<script>
//define function display
//call the time display function for every one second
</script>
```

```
// get time
    var d= new Date();
// extract hour,minutes and seconds
    d.getHours
    d.getMinutes()
    d.getSeconds()
// call the time display function for every one second
    setInterval("display()", 1000);
```



2. Write JavaScript code to change background colour for every 30 seconds.

```
<body>
<h1>Dynamic Background!</h1>
<script>
    //define function setBackgroundColor
```

17CS2015 Web Technology Lab

```
//call the setBackgroundColor function for every two seconds
```

```
</script>
```

```
</body>
```

```
//create random colors using rgb function
```

```
var red = Math.floor(Math.random()*255);
```

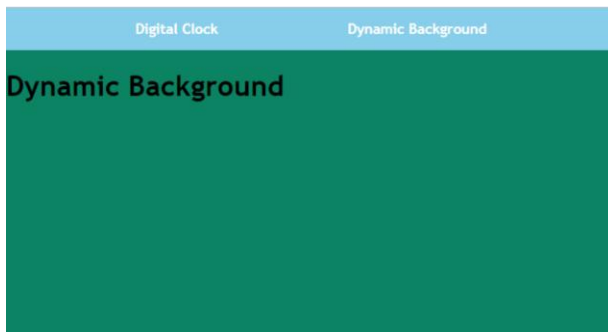
```
var blue = Math.floor(Math.random()*255);
```

```
var green = Math.floor(Math.random()*255);
```

```
var color= "rgb("+red+", "+green+", "+blue+"");
```

```
// change or set body background color
```

```
document.getElementsByTagName("body")[0].style="background-color:"+color;
```



3. Create event handlers that will increase the font size when a mouse moves over a paragraph and decrease the size when the mouse moves off the paragraph.

```
<h1>Change font size!</h1>
```

```
<p id="para1" onmouseover="incSize()" onmouseout="decSize()">
```

```
move cursor over me to zoom in...
```

```
</p>
```

```
<script>
```

```
    //define function incSize
```

```
    //define function decSize
```

```
</script>
```

```
</body>
```

17CS2015 Web Technology Lab

// To change font size

```
function incSize(){  
    document.getElementById("para1").style="font-size:28px";}
```



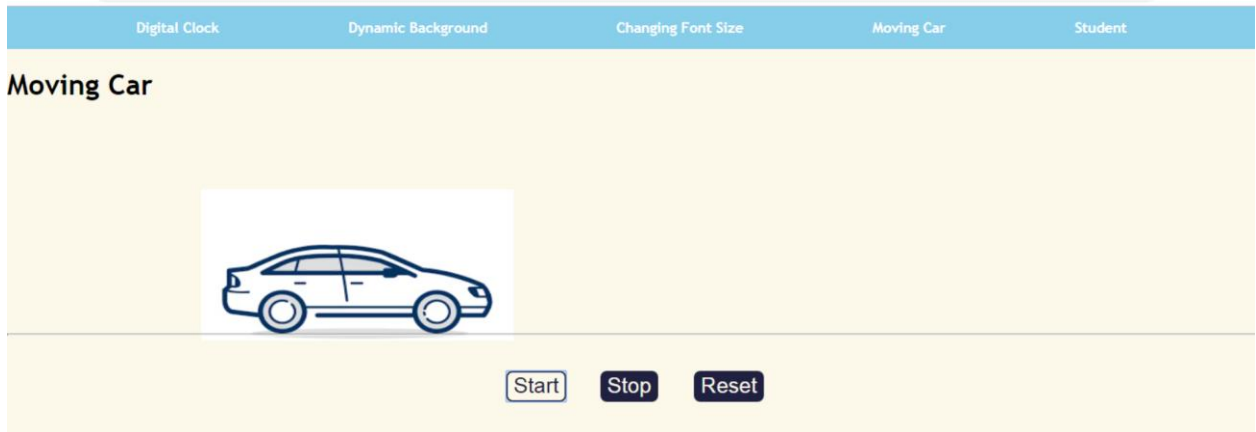
4. Write JavaScript code to move absolutely-positioned car image when a user clicks the move button and stop the car image when a user clicks the stop button on the following webpage.

//sample code to move image

```
function init()  
{  
    imgObj = document.getElementById('img');  
    imgObj.style.position= 'relative'; imgObj.style.left = '0px';  
}  
function moveRight()  
{  
    imgObj.style.left = parseInt(imgObj.style.left) + 1 + 'px';  
    animate = setTimeout('moveRight()',10); // call moveRight in 20msec  
}  
function stop()  
{
```

17CS2015 Web Technology Lab

```
clearTimeout(animate);  
imgObj.style.left = '0px';  
}  
window.onload =init();
```



5. Create an array of objects, where each object describes about a student and his/her properties for the name (a string), regno (a string) and year of birth (a number). Iterate through the array of students and display it on the web page. For each student, print the student name and register no like so: "John's Register Number is UR13CS129". Now use an if/else statement to categorize the students they have date of birth before 2000 and after 2000.

```
// Create an array of objects
```

```
var student = [ { name:'John', r_num:'123', dob:'20-apr-1995' }, { name:'Joseph',  
r_num:'456', dob:'05-jan-1998' }];
```

```
//Iterate through an array
```

```
for (var i = 0; i < Objectname.length; i++) {
```

```
    //access property
```

```
    Objectname[i].property1;
```

```
    //student[i].name;
```

```
}
```

17CS2015 Web Technology Lab

The screenshot shows a web browser window with two tabs: 'Course Management System: Log in' and 'Digital Clock'. The address bar shows the URL '13/Exercise6/student.html'. The main content area has a light yellow background and contains the following elements:

- Form fields for 'Name', 'Register No', and 'Date of Birth', each with a dark blue input box. The values entered are 'gurudev', 'urk17cs127', and '10-06-1999' respectively.
- An 'Add More Students' button.
- A 'Print Student Details:' label followed by a 'Print' button.
- A section titled 'Before 2000' containing two rows of text in a table-like structure:

John's Register Number is URK17CS123
gurudev's Register Number is urk17cs127
- A section titled 'After 2000' containing two rows of text in a table-like structure:

Jospeh's Register Number is URK17CS456
gurudev's Register Number is urk17cs127

The browser's taskbar at the bottom shows various icons, including the Windows Start button, task view, and several application icons.

Web site URL: <http://urk17cs127.rf.gd/Exercise6/>

You tube URL: <https://youtu.be/A7AR3kdHmwg>