

BOARD INFINITY PROJECT

JAVASCRIPT FOR WEB DEVELOPMENT



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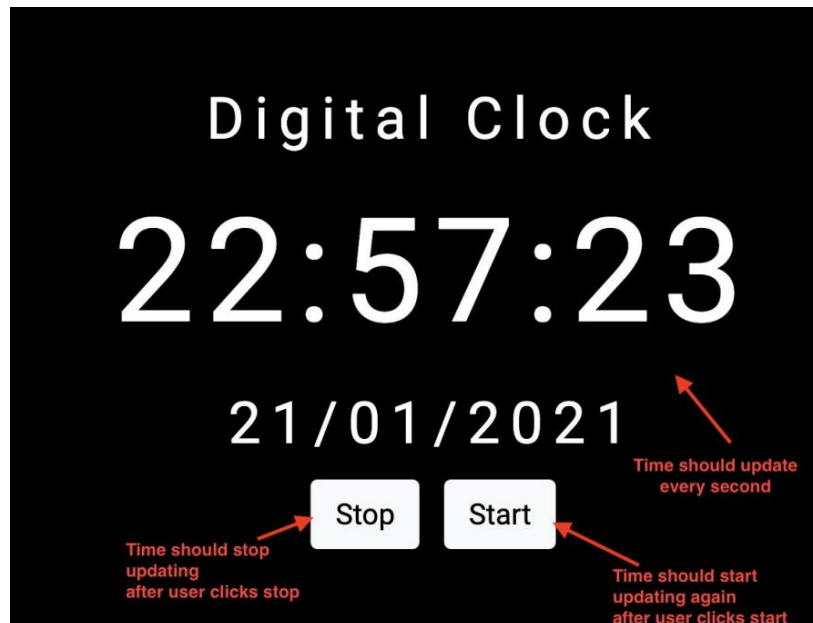


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Problem 1:

Build a digital clock with start/stop function

Build a digital clock which should display current time and update the time after every second. When the user clicks `Stop` Button the clock should stop updating the time. When the user clicks on the `Start` button later the clock should start updating the current time again as shown below:-



CODE

```
<!DOCTYPE html>

<html>

<head>

  <title>Digital Clock</title>

  <style>

    .clock {

      font-family: "Times New Roman";

      font-size: 130px;

      text-align: center;

      margin-top: 80px;
```

```
    color: red;
}
.clockname {
    font-family: "Times New Roman";
    font-size: 130px;
    text-align: center;
    color: orange;
}
.buttons {
    text-align: center;
    margin-top: 80px;
}
.start_button {
    background-color: green;
    color: white;
    padding: 20px 40px;
    font-size: 40px;
    border: 10px;
    cursor: pointer;
    margin-right: 20px;
}
.stop_button {
    background-color: red;
    color: black;
    padding: 20px 40px;
    font-size: 40px;
```

```
border: 10px;
cursor: pointer;
}
.date {
font-family: "Bebas Neue";
font-size: 80px;
text-align: center;
margin-top: 30px;
color: black;
}
</style>
</head>
<body>
<div class="clockname"><i>DIGITAL CLOCK</i></div>
<div class="clock">00:00:00</div>
<div class="date">DD-MM-YYYY</div>
<div class="buttons">
  <button class="start_button" onclick="startClock()">Start</button>
  <button class="stop_button" onclick="stopClock()">Stop</button>
</div>

<script>
let clockE = document.querySelector(".clock");
let dateE = document.querySelector(".date");
let timer;
```

```
function update() {  
    let now = new Date();  
    let hrs = now.getHours().toString().padStart(2, "0");  
    let min = now.getMinutes().toString().padStart(2, "0");  
    let sec = now.getSeconds().toString().padStart(2, "0");  
    let timeString = hrs + ":" + min + ":" + sec;  
    clockE.textContent = timeString;  
  
    let month = (now.getMonth() + 1).toString().padStart(2, "0");  
    let year = now.getFullYear();  
    let day = now.getDate().toString().padStart(2, "0");  
    let dateString = day + "-" + month + "-" + year;  
    dateE.textContent = dateString;  
}
```

```
function startClock() {  
    update();  
    timer = setInterval(update, 1000);  
}
```

```
function stopClock() {  
    clearInterval(timer);  
}
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT

DIGITAL CLOCK

00:00:00

DD-MM-YYYY

Start

Stop

BEFORE CLICKING ON THE START BUTTON

DIGITAL CLOCK

17:57:01

05-07-2023

Start

Stop

AFTER CLICKING THE START BUTTON THE TIMER SHOWS THE CURRENT TIME AND DATE

PROBLEM 3:

Build a student's virtual college id card generator using Javascript

CODE

```
<!DOCTYPE html>

<html>

<head>

  <title>Student ID Card Generator</title>


<style>

  * {

    margin: 0;

    padding: 0;

    box-sizing: border-box;

  }


  body {

    font-family: Arial, sans-serif;

    background-color: orange;

  }


  .main-title {

    text-align: center;

    font-size: 36px;

    font-weight: bold;
```

```
background-color: black;
color: red;
padding: 10px;
border-radius: 1px;
}
```

```
.container {
display: flex;
justify-content: center;
align-items: flex-start;
margin-top: 30px;
height: 100vh;
}
```

```
.form-container {
width: 500px;
background-color: #ffffff;
padding: 20px;
border-right: 2px solid #4047F0;
box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
border-radius: 5px;
}
```

```
.form {
```



```
margin-left: 80px;  
padding: 20px;  
}
```

```
.out {  
margin-bottom: 20px;  
}
```

```
.out label {  
font-size: 17px;  
font-weight: bold;  
color: red;  
line-height: 20px;  
}
```

```
.field {  
border: 1px solid #000000;  
display: flex;  
align-items: center;  
padding: 2px 5px;  
width: 280px;  
border-radius: 5px;  
}
```

```
.field input {  
  outline: none;  
  border: none;  
}
```

```
.card-container {  
  width: 600px;  
  margin-left: 120px;  
  border-radius: 18px;  
}
```

```
.card .label {  
  font-weight: normal;  
  color: red;  
  margin-top: 10px;  
}
```

```
.card .data {  
  font-weight: bold;  
  color: #000000;  
  margin-top: 10px;  
}
```

```
.card {
```

```
display: flex;
height: 240px;
width: 80%;
color: red;
border-radius: 5px;
background-color: rgba(220, 219, 219, 0.865);
box-shadow: rgba(0, 0, 0, 0.1) 0px 4px 12px;
}
```

```
.i {
background: rgb(2, 0, 36);
background: linear-gradient(2deg, rgba(2, 0, 36, 1) 0%, rgba(9, 9,
121, 1) 35%, rgba(0, 212, 255, 1) 100%);
padding: 34px 20px;
border-radius: 12px;
}
```

```
.con {
display: flex;
flex-direction: column;
margin-top: 60px;
margin-left: 20px;
gap: 10px;
text-align: left;
```

```
}
```

```
.card img {  
  width: 140px;  
  height: 160px;  
  border-radius: 10%;  
  margin-bottom: 10px;  
}
```

```
.card h2 {  
  margin: 0;  
  font-size: 24px;  
  font-weight: bold;  
}
```

```
.card p {  
  margin: 5px 0;  
  font-size: 16px;  
}
```

```
.button-container {  
  text-align: center;  
  margin-top: 20px;  
}
```

```
.button-container button {
  padding: 10px 20px;
  font-size: 16px;
  background-color: #4047F0;
  color: yellow;
  border: none;
  border-radius: 5px;
  cursor: pointer;
}
</style>
</head>
<body>
  <h1 class="main-title">Student ID Card Generator</h1>
  <div class="container">
    <div class="form-container">
      <h2 style="color: black; margin-left: 80px; padding: 20px;">Enter
Student Details</h2>
      <form id="id-card-form" class="form">
        <div class="out">
          <label for="name">Enter Name:</label><br>
          <div class="field">
            <i class="fas fa-user-circle" style="margin-right: 20px; margin-
left: 4px;"></i>
```

```
<input type="text" id="name" required><br><br>
</div>
</div>
<div class="out">
  <label for="student-id">College Name:</label><br>
  <div class="field">
    <i class="fas fa-university" style="margin-right: 20px; margin-
left: 4px;"></i>
    <input type="text" id="student-id" required><br><br>
  </div>
</div>
<div class="out">
  <label for="course">Enter Location:</label>
  <div class="field">
    <i class="fas fa-address-card" style="margin-right: 20px;
margin-left: 4px;"></i>
    <input type="text" id="course" required><br><br>
  </div>
</div>
<div class="out">
  <label for="photo">Enter Student Picture:</label>
  <div class="phot">
    <input type="file" id="photo" accept="image/*"
required><br><br>
  </div>
</div>
```

```
</div>
<div class="button-container">
  <button type="button" onclick="validateForm()">Generate
Card</button>
</div>
</form>
</div>
<div class="card-container">
  <h2 style="color: black; margin-top: 40px; margin-left: 100px;
padding: 20px;">Student ID Card</h2>
  <div class="card" id="id-card">
    <div class="i">
      <img id="photo-preview" alt="Please Input Image">
    </div>
    <div class="con">
      <p id="name-preview">Enter Name</p>
      <p id="student-id-preview">Enter College Name</p>
      <p id="course-preview">Enter Location</p>
    </div>
  </div>
</div>
</div>
<script>
  function generateIDCard(name, collegeName, location, photo) {
```

```
var photoPreview = document.getElementById('photo-preview');
var namePreview = document.getElementById('name-preview');
console.log(photoPreview)

var collegeNamePreview = document.getElementById('student-id-
preview');

var locationPreview = document.getElementById('course-
preview');


console.log(locationPreview)


photoPreview.src = URL.createObjectURL(photo);


namePreview.innerHTML = `<span class="label">Name:</span>
<span class="data">${name}</span>`;

collegeNamePreview.innerHTML = `<span
class="label">College:</span> <span
class="data">${collegeName}</span>`;

locationPreview.innerHTML = `<span
class="label">Location:</span> <span
class="data">${location}</span>`;

}


function validateForm() {

var name = document.getElementById('name').value;
var collegeName = document.getElementById('student-id').value;
var location = document.getElementById('course').value;
```



```

var photo = document.getElementById('photo').files[0];

if (name && collegeName && location && photo) {
    console.log(name, collegeName, location, photo)
    generateIDCard(name, collegeName, location, photo);
} else {
    alert('Please fill in all the fields.');
```

```

}
```

```

}
```

```

</script>
```

```

</body>
```

```

</html>
```

OUTPUT

Student ID Card Generator

Enter Student Details

Enter Name:

Please fill out this field.

College Name:

Enter Location:

Enter Student Picture:

Choose File

No file chosen

Generate Card

Student ID Card

Please Input Image

Enter Name

Enter College Name

Enter Location

asks the user to enter the details

Student ID Card Generator

Enter Student Details

Enter Name:


College Name:

Enter Location:

Enter Student Picture:
Choose File | haresh pic1.jpeg

[Generate Card](#)

Student ID Card

Please Input Image

Enter Name

Enter College Name

Enter Location

after entering details we need to click on "Generate Card" to generate the ID card

Student ID Card Generator

Enter Student Details

Enter Name:


College Name:

Enter Location:

Enter Student Picture:
Choose File | haresh pic1.jpeg

[Generate Card](#)

Student ID Card



Name: Haresh S

College: Lovely Professional University

Location: Phagwara, Punjab

After clicking on "Generate Card" the id card is generated

THANK YOU