

## **WINTER SEMESTER 2025-26**

### **BCSE203E: Web Programming**

#### **Lab 10**

Date: 30/01/2026

Reg. No: 24BCE5362

CODE:

```
<!DOCTYPE html>

<html>
    <head>
        <title>Mini Systems</title>

        <style>
            *{box-sizing:border-box}

            body{
                font-family:"Segoe UI",Arial;
                margin:0;
                min-height:100vh;
                background:linear-gradient(135deg,#667eea,#764ba2);
                padding:25px;
                transition:.3s;
            }

            body.dark{
                background:linear-gradient(135deg,#0f172a,#020617);
            }
        </style>
    </head>
    <body>
        <h1>Mini Systems</h1>
        <p>This is a simple web application demonstrating basic HTML and CSS concepts.</p>
        <ul>
            <li>Home</li>
            <li>About</li>
            <li>Contact</li>
        </ul>
    </body>
</html>
```

```
/* HEADER */  
  
.header{  
color:white;  
text-align:center;  
margin-bottom:20px;  
}  
  
/* BODY */
```

```
.header h1{margin:5px 0;}
```

```
.info{  
display:flex;  
justify-content:center;  
gap:20px;  
flex-wrap:wrap;  
font-size:14px;  
}
```

```
/* TOGGLE */  
  
.toggle{  
position:fixed;  
top:20px;  
right:20px;  
border-radius:30px;  
padding:6px 12px;  
cursor:pointer;  
font-size:14px;  
background:white;
```

```
color:black;  
transition:.3s;  
}  
  
/* Dark mode toggle color */  
  
body.dark .toggle{  
background:black;  
color:white;  
}  
  
/* GRID */  
  
.container{  
display:grid;  
grid-template-columns:repeat(auto-fit,minmax(300px,1fr));  
gap:25px;  
}  
  
/* CARDS */  
  
.box{  
background:rgba(255,255,255,.95);  
padding:25px;  
border-radius:18px;  
box-shadow:0 12px 25px rgba(0,0,0,.15);  
transition:.3s;  
}  
  
body.dark .box{
```

```
background:#020617;  
color:white;  
}  
  
.box:hover{transform:translateY(-6px);}  
  
.box h3{text-align:center}
```

```
/* INPUT */  
  
input{  
width:100%;  
padding:10px;  
margin:8px 0;  
border-radius:10px;  
border:1px solid #ccc;  
outline:none;  
}
```

```
body.dark input{  
background:#020617;  
color:white;  
border:1px solid #334155;  
}
```

```
/* BUTTON */  
  
button{  
width:100%;
```

```
padding:12px;  
margin-top:10px;  
border:none;  
border-radius:12px;  
background:linear-gradient(135deg,#667eea,#4f46e5);  
color:white;  
font-weight:600;  
cursor:pointer;  
}  
  
}
```

```
.reset{  
background:linear-gradient(135deg,#ef4444,#dc2626);  
}
```

```
/* OUTPUT */  
.output{  
margin-top:12px;  
background:#eef2ff;  
padding:12px;  
border-radius:12px;  
opacity:0;  
transform:translateY(6px);  
transition:.3s;  
}  
  
}
```

```
button:hover{  
transform:scale(1.05);
```

```
box-shadow:0 6px 15px rgba(0,0,0,0.25);

}

body.dark .output{
background:#020617;

}

.show{
opacity:1;
transform:translateY(0);
}


```

.green{color:#16a34a;font-weight:bold;}

.red{color:#dc2626;font-weight:bold;}

</style>

</head>

<body>

<div class="toggle" onclick="toggleMode()"> Dark Mode</div>

<div class="header">

<h1>Mini Management Systems</h1>

<div class="info">

<div>Name: Balashanmugam K</div>

<div>Reg No: 24BCE5362</div>

<div id="date"></div>

```
</div>
</div>

<div class="container">

<!-- STUDENT -->
<div class="box">
<h3>1. Student Result Management</h3>

<input id="m1" type="number" min="0" max="100" placeholder="Subject 1">
<input id="m2" type="number" min="0" max="100" placeholder="Subject 2">
<input id="m3" type="number" min="0" max="100" placeholder="Subject 3">
<input id="m4" type="number" min="0" max="100" placeholder="Subject 4">
<input id="m5" type="number" min="0" max="100" placeholder="Subject 5">

<button onclick="result()">Calculate</button>
<button class="reset" onclick="resetResult()">Reset</button>

<div id="res" class="output"></div>
</div>

<!-- SHOPPING -->
<div class="box">
<h3>2. Shopping Discount</h3>

<input id="bill" type="number" min="0" placeholder="Total Amount">
```

```
<button onclick="discount()">Calculate</button>

<button class="reset" onclick="resetShop()">Reset</button>

<div id="shop" class="output"></div>
</div>

<!-- SALARY -->

<div class="box">
<h3>3. Employee Salary</h3>

<input id="basic" type="number" min="0" placeholder="Basic Salary">

<button onclick="salary()">Calculate</button>
<button class="reset" onclick="resetSalary()">Reset</button>

<div id="sal" class="output"></div>
</div>

</div>

<script>
// Auto Date

let d=new Date();

document.getElementById("date").innerText =
"Date: "+String(d.getDate()).padStart(2,"0")+"/"++
String(d.getMonth()+1).padStart(2,"0")+"/"++
d.getFullYear();
```

```
// Dark Mode Toggle

function toggleMode(){

document.body.classList.toggle("dark");

document.querySelector(".toggle").innerText = 

document.body.classList.contains("dark") ? "☀️ Light Mode" : "🌙 Dark Mode";

}


```

```
// Student Result

function result(){

if(m1.value=="" || m2.value=="" || m3.value=="" || m4.value=="" || m5.value==""){

res.className="output show";

res.innerHTML=<span class='red'>Enter all subject marks!</span>;

return;

}


```

```
let a=+m1.value,b=+m2.value,c=+m3.value,d=+m4.value,e=+m5.value;
```

```
if(a>100 || b>100 || c>100 || d>100 || e>100){

res.className="output show";

res.innerHTML=<span class='red'>Marks cannot exceed 100!</span>;

return;

}
```

```
let total=a+b+c+d+e;

let avg=total/5;

let r="",cls="";
```

```

if(avg>=75){r="Distinction";cls="green";}
else if(avg>=60) r="First Class";
else if(avg>=50) r="Second Class";
else{r="Fail";cls="red";}

res.className="output show";
res.innerHTML="Total: "+total+"<br>Average: "+avg+
"<br>Result: <span class='"+cls+"'>" +r+ "</span>";
}

// Shopping

function discount(){
if(bill.value==""){
shop.className="output show";
shop.innerHTML=<span class='red'>Enter amount!</span>;
return;
}

let amt=+bill.value,disc=0;
if(amt>=5000) disc=0.2*amt;
else if(amt>=3000) disc=0.1*amt;

shop.className="output show";
shop.innerHTML="Original: "+amt+"<br>Discount: "+disc+"<br>Payable: "+(amt-disc);
}

```

```

// Salary

function salary(){

if(basic.value==""){

    sal.className="output show";

    sal.innerHTML=<span class='red'>Enter salary!</span>;

    return;

}

let b=+basic.value;

let hra=0.2*b, da=0.1*b, pf=0.08*b;

let gross=b+hra+da;

let net=gross-pf;

sal.className="output show";

sal.innerHTML="Gross: "+gross+"<br>Net: "+net;

}

// Reset

function
resetResult(){m1.value=m2.value=m3.value=m4.value=m5.value="" ;res.innerHTML="" ;res.className
="output";}

function resetShop(){bill.value="" ;shop.innerHTML="" ;shop.className="output";}

function resetSalary(){basic.value="" ;sal.innerHTML="" ;sal.className="output";}

</script>

</body>

</html>

```

## OUTPUT:

The screenshot shows a web browser window titled "Mini Systems" displaying the "Mini Management Systems" application. The application has a dark blue header with the title and a "Dark Mode" toggle. Below the header, it shows the user's name, registration number, and date. The main interface is divided into three vertical sections:

- 1. Student Result Management**: Contains five input fields for Subject 1 through Subject 5, and two buttons: "Calculate" (blue) and "Reset" (red).
- 2. Shopping Discount**: Contains one input field for Total Amount, and two buttons: "Calculate" (blue) and "Reset" (red).
- 3. Employee Salary**: Contains one input field for Basic Salary, and two buttons: "Calculate" (blue) and "Reset" (red).

This screenshot shows the same "Mini Management Systems" application interface. The "Student Result Management" section now displays calculated results:

- Subject 1: 95
- Subject 2: 99
- Subject 3: 100
- Subject 4: 100
- Subject 5: 98

Below these inputs are the "Calculate" (blue) and "Reset" (red) buttons. To the right, the results are summarized:

Total: 492  
Average: 98.4  
Result: **Distinction**

## Mini Management Systems

Name: Balashanmugam K Reg No: 24BCE5362 Date: 30/01/2026 🌙 Dark Mode

### 1. Student Result Management

  
  
  
  


Calculate
Reset

Total: 492  
Average: 98.4  
Result: **Distinction**

### 2. Shopping Discount

Calculate
Reset

Original: 5000  
Discount: 1000  
Payable: 4000

### 3. Employee Salary

Calculate
Reset

## Mini Management Systems

Name: Balashanmugam K Reg No: 24BCE5362 Date: 30/01/2026 🌙 Dark Mode

### 1. Student Result Management

  
  
  
  


Calculate
Reset

Total: 492  
Average: 98.4  
Result: **Distinction**

### 2. Shopping Discount

Calculate
Reset

Original: 5000  
Discount: 1000  
Payable: 4000

### 3. Employee Salary

Calculate
Reset

Gross: 130000  
Net: 122000

## Mini Management Systems

Name: Balashanmugam K Reg No: 24BCE5362 Date: 30/01/2026 ☀️ Light Mode

### 1. Student Result Management

  
  
  
  


Calculate
Reset

Total: 492  
Average: 98.4  
Result: **Distinction**

### 2. Shopping Discount

Calculate
Reset

Original: 5000  
Discount: 1000  
Payable: 4000

### 3. Employee Salary

Calculate
Reset

Gross: 130000  
Net: 122000

## Mini Management Systems

Name: Balashanmugam K Reg No: 24BCE5362 Date: 30/01/2026

### 1. Student Result Management

  
  
  
  


Calculate

Reset

### 2. Shopping Discount

Calculate

Reset

Original: 3000  
Discount: 300  
Payable: 2700

### 3. Employee Salary

Calculate

Reset

## Mini Management Systems

Name: Balashanmugam K Reg No: 24BCE5362 Date: 30/01/2026

### 1. Student Result Management

  
  
  
  


Calculate

Reset

### 2. Shopping Discount

Calculate

Reset

Original: 2000  
Discount: 0  
Payable: 2000

### 3. Employee Salary

Calculate

Reset

## Mini Management Systems

Name: Balashanmugam K Reg No: 24BCE5362 Date: 30/01/2026

### 1. Student Result Management

  
  
  
▼  
  

Calculate

Reset

Total: 325  
Average: 65  
Result: First Class

### 2. Shopping Discount

Calculate

Reset

Original: 2000  
Discount: 0  
Payable: 2000

### 3. Employee Salary

Calculate

Reset

### Mini Management Systems

Name: Balashanmugam K Reg No: 24BCE5362 Date: 30/01/2026 🌙 Dark Mode

#### 1. Student Result Management

  
  
  
  


Calculate

Reset

Total: 280  
Average: 56  
Result: Second Class

#### 2. Shopping Discount

Calculate

Reset

Original: 2000  
Discount: 0  
Payable: 2000

#### 3. Employee Salary

Calculate

Reset

### Mini Management Systems

Name: Balashanmugam K Reg No: 24BCE5362 Date: 30/01/2026 🌙 Dark Mode

#### 1. Student Result Management

  
  
  
  


Calculate

Reset

Total: 240  
Average: 48  
Result: Fail

#### 2. Shopping Discount

Calculate

Reset

Original: 2000  
Discount: 0  
Payable: 2000

#### 3. Employee Salary

Calculate

Reset

### Mini Management Systems

Name: Balashanmugam K Reg No: 24BCE5362 Date: 30/01/2026 🌙 Dark Mode

#### 1. Student Result Management

  
  
  
  


Calculate

Reset

Total: 240  
Average: 48  
Result: Fail

#### 2. Shopping Discount

Calculate

Reset

Original: 2000  
Discount: 0  
Payable: 2000

#### 3. Employee Salary

Calculate

Reset