

## 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);
```

```
}
```

```
/* HEADER */
```

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

```
.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 image displays two screenshots of a web application titled "Mini Management Systems". The application is running in a browser window with the address bar showing a local file path. The user is logged in as "Guest". The application header includes the user's name (Balashanmugam K), registration number (24BCE5362), and date (30/01/2026). A "Dark Mode" toggle is visible in the top right corner.

**1. Student Result Management**

Initial state (top screenshot):

- Subject 1:
- Subject 2:
- Subject 3:
- Subject 4:
- Subject 5:
- Buttons: Calculate, Reset

State after calculation (bottom screenshot):

- Input values: 95, 99, 100, 100, 98
- Buttons: Calculate, Reset
- Summary box:
  - Total: 492
  - Average: 98.4
  - Result: **Distinction**

**2. Shopping Discount**

Initial state (top screenshot):

- Total Amount:
- Buttons: Calculate, Reset

State after calculation (bottom screenshot):

- Buttons: Calculate, Reset

**3. Employee Salary**

Initial state (top screenshot):

- Basic Salary:
- Buttons: Calculate, Reset

State after calculation (bottom screenshot):

- Buttons: Calculate, Reset

Mini Management Systems

Name: Balashanmugam K

Reg No: 24BCE5362

Date: 30/01/2026

Dark Mode

1. Student Result Management

95

99

100

100

98

Calculate

Reset

Total: 492

Average: 98.4

Result: Distinction

2. Shopping Discount

5000

Calculate

Reset

Original: 5000

Discount: 1000

Payable: 4000

3. Employee Salary

Basic Salary

Calculate

Reset

Mini Management Systems

Name: Balashanmugam K

Reg No: 24BCE5362

Date: 30/01/2026

Dark Mode

1. Student Result Management

95

99

100

100

98

Calculate

Reset

Total: 492

Average: 98.4

Result: Distinction

2. Shopping Discount

5000

Calculate

Reset

Original: 5000

Discount: 1000

Payable: 4000

3. Employee Salary

100000

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

95

99

100

100

98

Calculate

Reset

Total: 492

Average: 98.4

Result: Distinction

2. Shopping Discount

5000

Calculate

Reset

Original: 5000

Discount: 1000

Payable: 4000

3. Employee Salary

100000

Calculate

Reset

Gross: 130000

Net: 122000

Mini Management Systems

Name: Balashanmugam K

Reg No: 24BCE5362

Date: 30/01/2026

Dark Mode

1. Student Result Management

Subject 1

Subject 2

Subject 3

Subject 4

Subject 5

Calculate

Reset

2. Shopping Discount

3000

Calculate

Reset

Original: 3000

Discount: 300

Payable: 2700

3. Employee Salary

Basic Salary

Calculate

Reset

Mini Management Systems

Name: Balashanmugam K

Reg No: 24BCE5362

Date: 30/01/2026

Dark Mode

1. Student Result Management

Subject 1

Subject 2

Subject 3

Subject 4

Subject 5

Calculate

Reset

2. Shopping Discount

2000

Calculate

Reset

Original: 2000

Discount: 0

Payable: 2000

3. Employee Salary

Basic Salary

Calculate

Reset

Mini Management Systems

Name: Balashanmugam K

Reg No: 24BCE5362

Date: 30/01/2026

Dark Mode

1. Student Result Management

65

65

65

65

65

Calculate

Reset

Total: 325

Average: 65

Result: First Class

2. Shopping Discount

2000

Calculate

Reset

Original: 2000

Discount: 0

Payable: 2000

3. Employee Salary

Basic Salary

Calculate

Reset

Mini Management Systems

Name: Balashanmugam K

Reg No: 24BCE5362

Date: 30/01/2026

Dark Mode

1. Student Result Management

65

65

65

65

20

Calculate

Reset

Total: 280

Average: 56

Result: Second Class

2. Shopping Discount

2000

Calculate

Reset

Original: 2000

Discount: 0

Payable: 2000

3. Employee Salary

Basic Salary

Calculate

Reset

Mini Management Systems

Name: Balashanmugam K

Reg No: 24BCE5362

Date: 30/01/2026

Dark Mode

1. Student Result Management

50

65

50

65

10

Calculate

Reset

Total: 240

Average: 48

Result: **Fail**

2. Shopping Discount

2000

Calculate

Reset

Original: 2000

Discount: 0

Payable: 2000

3. Employee Salary

Basic Salary

Calculate

Reset

Mini Management Systems

Name: Balashanmugam K

Reg No: 24BCE5362

Date: 30/01/2026

Dark Mode

1. Student Result Management

50

65

50

65

10

Calculate

Reset

Total: 240

Average: 48

Result: **Fail**

2. Shopping Discount

2000

Calculate

Reset

Original: 2000

Discount: 0

Payable: 2000

3. Employee Salary

Basic Salary

Calculate

Reset