



PARSHVANATH CHARITABLE TRUST'S

A. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)



Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT B
Subject: IP Lab

Name of Student: Srushti S. Pankar
Student ID:23104099
Roll No.27
Date of Submission:24/07/25

Experiment No: 1

Aim: Write a program to create a student portfolio webpage using HTML 5 elements.

Software Used: Vs code

Code :

Index.html

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>My Portfolio - Home</title>
```

```
<style>  body {
```

```
background: #e0f7fa;  font-
```

```
family: Arial, sans-serif;
```

```
text-align: center;  padding:
```

```
50px;
```

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```
} h1 {  
font-size: 40px;  
color: #006064;  
  
} a { display:  
inline-block; margin:  
20px; padding: 10px  
20px; text-  
decoration: none;  
background: #00796b;  
color: white; border-  
radius: 10px;  
  
} a:hover {  
background: #004d40;  
  
}  
  
</style>  
  
</head>  
  
<body>  
  
  
<h1>Welcome to My Portfolio</h1>  
  
<h2>Srushti Pankar</h2>  
  
  
<a href="academic.html">Academic Info</a>  
  
<a href="other.html">Certificates & Skills</a>
```



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</body>

</html>

Academic.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Academic Information</title>

<style> body {

background: #fff3e0; font-

family: Arial, sans-serif;

padding: 30px;

h1 {

color: #e65100;

table {

width: 60%;

margin: auto;

border-

collapse:

collapse;

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background:

white;

th, td { border:

1px solid #ff9800;

padding: 10px; text-

align: center; } th {

background: #ffe0b2;

a { display:

block; text-align:

center; margin-top:

30px; text-

decoration: none;

color: #e65100;

}

</style>

</head>

<body>

<h1>Academic Details</h1> <table>

<tr>

<th>Class</th>

<th>Board/University</th>

<th>Percentage</th>

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<th>Year</th>	
</tr>	
<tr>	
<td>10th</td>	
<td>SSC</td>	
<td>84%</td>	
<td>2020</td>	
</tr>	
<tr>	
<td>12th</td>	
<td>HSC</td>	
<td>69%</td>	
<td>2023</td>	
</tr>	
<tr>	
<td>FE</td>	
<td>University</td>	
<td>7.5</td>	<td>2023</td>
</tr>	
<tr>	
<td>SE</td>	
<td>University</td>	
<td>8.5</td>	



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<td>2024</td>

</tr>

</table>

← Back to Home

</body>

</html>

Other.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Certificates & Skills</title>

<style> body {

background: #e8f5e9; font-

family: Arial, sans-serif;

padding: 30px;

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```
    } h1 {  
color: #2e7d32;  
    } ul { list-style-  
type: square;  
padding-left: 50px;  
    }  
li {  
    margin: 10px 0;  
    } a { display:  
block; text-align:  
center; margin-top:  
30px; text-  
decoration: none;  
color: #2e7d32;  
    }  
</style>  
</head>  
<body>  
  
<h1>Certificates</h1>  
  
<ul>  
  
<li>ORACLE</li>  
  
<li>Cisco Networking Basics</li>
```



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```
<li>Linux Essentials</li>
```

```
<li>NPTEL</li>
```

```
</ul>
```

```
<h1>Skills</h1>
```

```
<ul>
```

```
<li>Python</li>
```

```
<li>HTML, CSS, JavaScript</li>
```

```
<li>Java</li>
```

```
<li>Linux OS</li>
```

```
<li>Git & GitHub</li>
```

```
</ul>
```

```
<a href="index.html">← Back to Home</a>
```

```
</body>
```

```
</html>
```

OUTPUT:



Welcome to My Portfolio

Srushti Pankar

Academic Info

Certificates & Skills

Academic Details

Class	Board/University	Percentage	Year
10th	SSC	84%	2020
12th	HSC	69%	2023
FE	University	7.5	2023
SE	University	8.5	2024

[← Back to Home](#)



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Certificates

- ORACLE
- Cisco Networking Basics
- Linux Essentials
- NPTEL

Skills

- Python
- HTML, CSS, JavaScript
- Java
- Linux OS
- Git & GitHub

[← Back to Home](#)

Conclusion: Thus we have studied and implemented program to create a student portfolio using various HTML tags like div, img, table, list, footer etc



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Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT B
Subject: IP Lab

Name of Student: Srushti S.Pankar
Student ID:23104099
Roll No.27
Date of Submission:24/07/25

Experiment No: 2

Aim: Write a program to create a placements registration form using HTML 5 Elements.

Software Used: Vs code

Code :

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

<style> body {

background-color: grey;

}

.A {

background-color: beige;

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__}

__P {

__background-color: burlywood;

__}

__F {

__background-color: aquamarine;

__}

__</style>

__</head>

__<body>

__<h1> Student Placement Registration Form </h1>

__<div class="A">

__<fieldset>

__<legend><h2>Academic Information</h2></legend>

__<label>Last year percentage</label>

__<input type="text">

__<label>Any certificate:</label>

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<input type="checkbox"> PCAP_Python

<input type="checkbox"> Cisco Networking

<input type="checkbox"> Redhat Linux

<input type="checkbox"> Linux Essential

<label>Project Name</label>

<input type="text">

<label>Internship Completed:</label>

<select>

<option value="yes">Yes</option>

<option value="no">No</option>

</select>

</fieldset>

</div>

<div class="P">

<fieldset>

<legend><h2>Personal Details</h2></legend>

<label>Firstname:</label>



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<input type="text">

 <label>Middlename:</label>

<input type="text">

<label>Lastname:</label>

<input type="text">

<label>Branch:</label>

<select>

<option value="computer eng">Computer Eng</option>

<option value="IT">IT</option>

<option value="AIML">AIML</option>

<option value="DS">DS</option>

</select>

<label>Gender:</label>

<input type="checkbox"> Male

<input type="checkbox"> Female

<input type="checkbox"> Other

<label>Phone:</label>

<input type="text" name="country code" value="+91" size="2">

<input type="text">

<label>Address:</label>

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<textarea name="comments" rows="5" cols="25" placeholder="Enter your Address"></textarea>

<label>Email:</label>

<input type="text">

<label>Password:</label>

<input type="text">

<label>Re-type Password:</label>

<input type="text">

</fieldset>

</div>

<div class="F">

<fieldset>

<legend><h2>File Upload</h2></legend>

<label>Upload Resume:</label>

<input type="file">

<label>Upload Marksheet:</label>

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<input type="file">

</fieldset>

</div>

<div style="text-align:center;">

<input type="submit" value="Submit">

</div>

</body>

</html>

OUTPUT:

Student Placement Registration Form

Academic Information

Last year percentage

Any certificate: ☐ PCAP_Python ☐ Cisco Networking ☐ Redhat Linux ☐ Linux Essential

Project Name

Internship Completed:

Personal Details

Firstname:

Middlename:

Lastname:

Branch:

Gender:
☐ Male
☐ Female
☐ Other

Phone:

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Phone: +91

Address:
Enter your Address

Email:

Password:

Re-type Password:

File Upload

Upload Resume: No file chosen

Upload Marksheet: No file chosen

Conclusion: We learn to create a placements registration form using HTML 5 Elements.



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Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT B
Subject: IP Lab

Name of Student: Srushti Pankar
Student ID:23104099
Roll No.27
Date of Submission:04/08/25

Experiment No: 3

Aim: Write a program to design home page of commercial website and apply different CSS selectors to the same.

Software Used: Vs code

Code & Output:

Html code

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Online Shopping</title>

    <link rel="stylesheet" href="style.css">

</head>

<body>

    <header>

        <h2>Online Shopping</h2>

        <input type="text" placeholder="Search for products">
```



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</header>

<nav>

Home

Electronics

Fashion

Home & Kitchen

Books

More

</nav>

<main>

<h3>Featured Products</h3>

<div class="product-container">

<div class="product-card">

<p>Product 1</p>

\$29.99

</div>

<div class="product-card">



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```
<p>Product 2</p>

<span>$49.99</span>

</div>

<div class="product-card">

  <p>Product 3</p>

  <span>$19.99</span>

</div>

<div class="product-card">

  <p>Product 4</p>

  <span>$99.99</span>

</div>

</div>

</main>

<footer>

  <p>© 2024 Online Shopping. All rights reserved.</p>

</footer>

</body>

</html>
```



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Css code

```
* {
```

```
margin: 0;
```

```
padding: 0;
```

```
box-sizing: border-box;
```

```
}
```

```
body {
```

```
font-family: Arial, sans-serif;
```

```
background-color: whitesmoke;
```

```
}
```

```
header {
```

```
background-color: black;
```

```
color: white;
```

```
padding: 15px;
```

```
display: flex;
```

```
justify-content: space-between;
```

```
align-items: center; }
```

```
header input {
```

```
padding: 7px;
```



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border-radius: 5px;

border: none; }

nav {

background-color: grey;

display: flex;

padding: 10px 20px; }

nav a {

color: white;

text-decoration: none;

margin-right: 20px;

font-size: 14px; }

main {

padding: 20px;

text-align: center; }

.product-container { display: flex;

justify-content: center;

flex-wrap: wrap;

gap: 20px;

margin-top: 20px;



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```
}
```

```
.product-card {
```

```
    background-color: white;
```

```
    padding: 15px;
```

```
    width: 180px;
```

```
    border-radius: 10px;
```

```
    box-shadow: 0 0 8px rgba(0,0,0,0.1);
```

```
    text-align: center;
```

```
}
```

```
.product-card img {
```

```
    width: 100%;
```

```
    height: 180px;
```

```
    object-fit: contain;
```

```
}
```

```
.product-card p {
```

```
    margin-top: 10px;
```

```
    font-weight: bold;
```

```
}
```

```
.product-card span {
```



```
color: grey; }
```

```
footer {
```

```
background-color: #1f1f1f;
```

```
color: white;
```

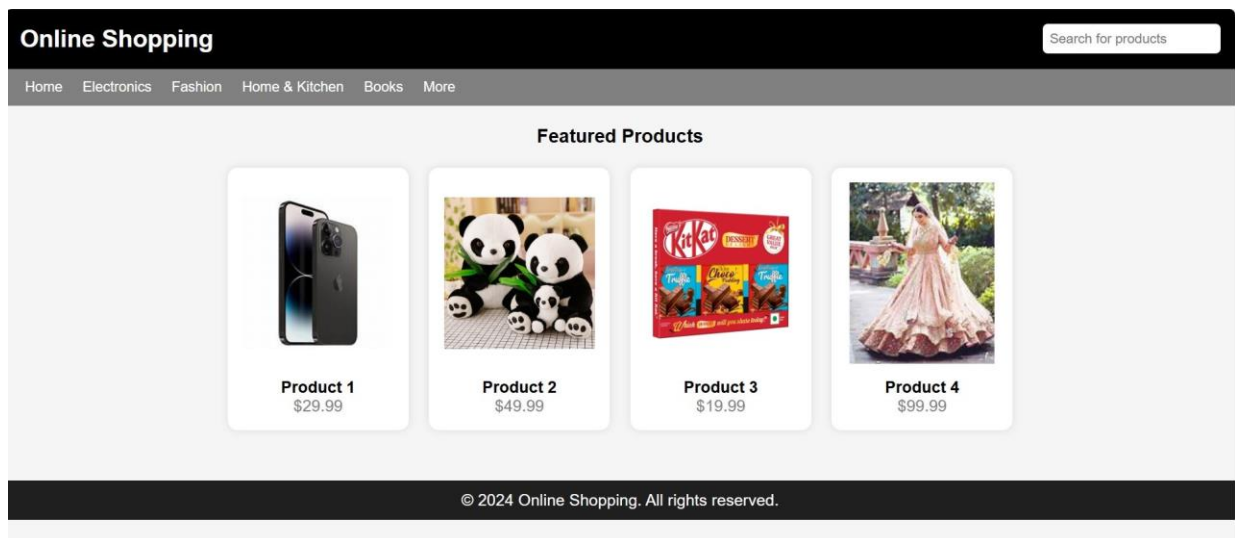
```
text-align: center;
```

```
padding: 10px 0;
```

```
margin-top: 30px;
```

```
}
```

OUTPUT:



Conclusion: In this experiment we have studied and implemented styling web pages using CSS..



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Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT C
Subject: IP Lab

Name of Student: Srushti Pankar
Student ID: 23104099
Roll No. 27
Date of Submission: 26-09-2025

Experiment No: 4

Aim: Write a program to enhance styling of your webpage using Bootstrap

Software Used: VS CODE

Code & Output:

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<title>Riya's Portfolio</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.8/dist/css/bootstrap.min.css"
rel="stylesheet" />
<style>
body {
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
background: #f9f9f9;
color: #0a0a0a;
}
header {
background-color: #ec7f7b;
color: white;
padding: 60px 20px;
text-align: center;
}
header h1 {
font-weight: 700;
font-size: 3rem;
margin-bottom: 10px;
```



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Department of Information Technology | APSIT }

header p {

font-size: 1.2rem;

font-weight: 500;

margin-bottom: 0;

}

section {

max-width: 900px;

margin: 50px auto;

padding: 0 20px;

}

h2 {

border-bottom: 2px solid #005f73;

padding-bottom: 8px;

margin-bottom: 30px;

font-weight: 600;

}

.skill-badge {

background-color: #0a9396;

color: white;

margin: 4px 8px 4px 0;

padding: 8px 15px;

border-radius: 20px;

font-weight: 600;

display: inline-block;

font-size: 0.9rem;

}

footer {

text-align: center;

padding: 15px 0;

color: #555;

font-size: 0.9rem;

}

@media (min-width: 768px) {

header h1 {

font-size: 4rem;

}

header p {

font-size: 1.5rem;

}

}

</style>

</head>

<body>

<header>



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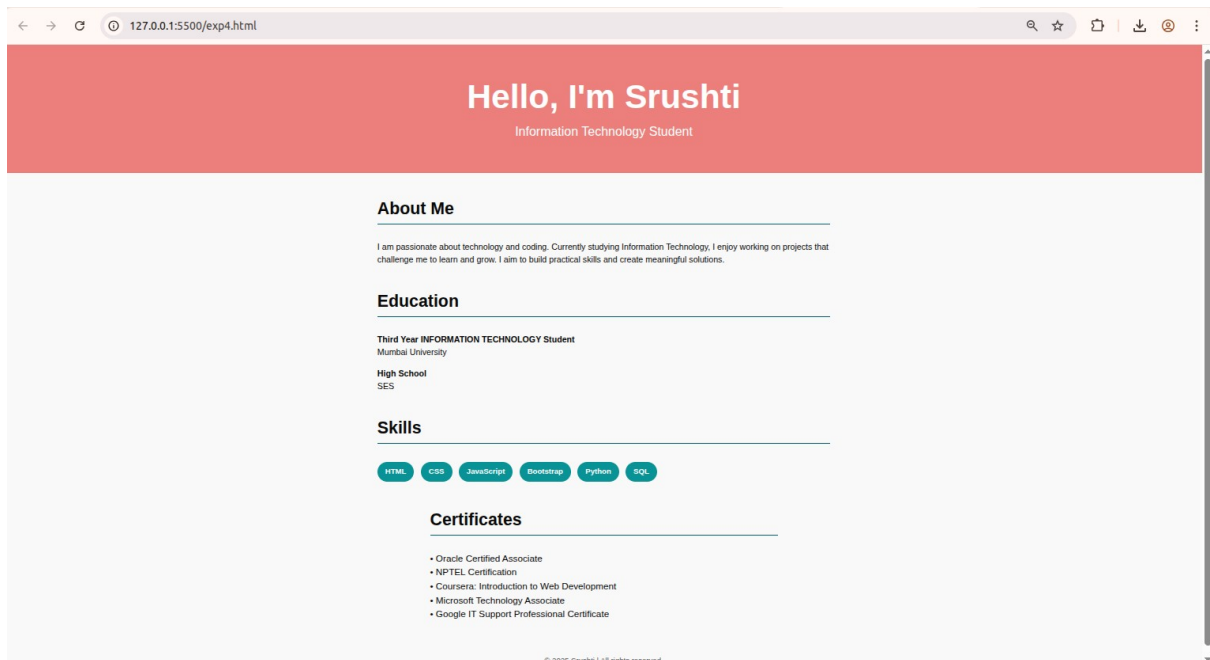
```
<h1>Hello, I'm Srushti</h1>
<p>Information Technology Student</p>
</header>
<section id="about">
<h2>About Me</h2>
<p>I am passionate about technology and coding. Currently studying Information
Technology, I enjoy working on projects that challenge me to learn and grow. I aim to
build
practical skills and create meaningful solutions.</p>
</section>
<section id="education">
<h2>Education</h2>
<p><strong>Third Year INFORMATION TECHNOLOGY Student</strong> <br />
Mumbai University</p>
<p><strong>High School</strong> <br />
SES</p>
</section>
<section id="skills">
<h2>Skills</h2>
<div>
<span class="skill-badge">HTML</span>
<span class="skill-badge">CSS</span>
<span class="skill-badge">JavaScript</span>
<span class="skill-badge">Bootstrap</span>
<span class="skill-badge">Python</span>
<span class="skill-badge">SQL</span>
</div>
</section>
<section id="certificates" style="max-width: 700px; margin: 50px auto; padding: 0
20px;">
<h2 style="border-bottom: 2px solid #005f73; padding-bottom: 8px; margin-bottom:
30px;
font-weight: 600;">Certificates</h2>
<ul style="list-style-type: none; padding-left: 0; font-size: 1.1rem;">
<li>• Oracle Certified Associate</li>
<li>• NPTEL Certification</li>
<li>• Coursera: Introduction to Web Development</li>
<li>• Microsoft Technology Associate</li>
<li>• Google IT Support Professional Certificate</li>
</ul>
</section>
<footer>
&copy; 2025 Srushti | All rights reserved.
</footer>
</body>
```



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`</html>`



Conclusion: Hence we understood to enhance styling of your webpage using Bootstrap.



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Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT B
Subject: IP Lab

Name of Student: Srushti Pankar
Student ID: 23104099
Roll No. 27
Date of Submission: 05-09-2025

Experiment No: 5

Aim: Write a program to implement ES6 functions

Software Used: VS CODE

Code & Output:

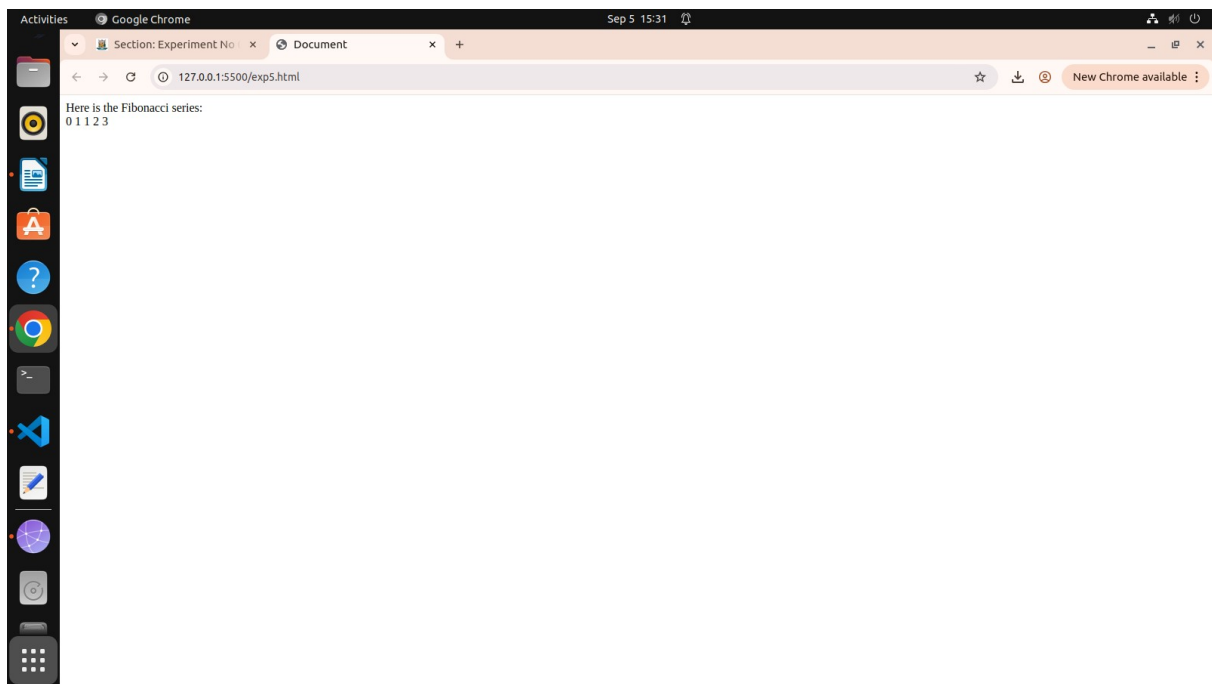
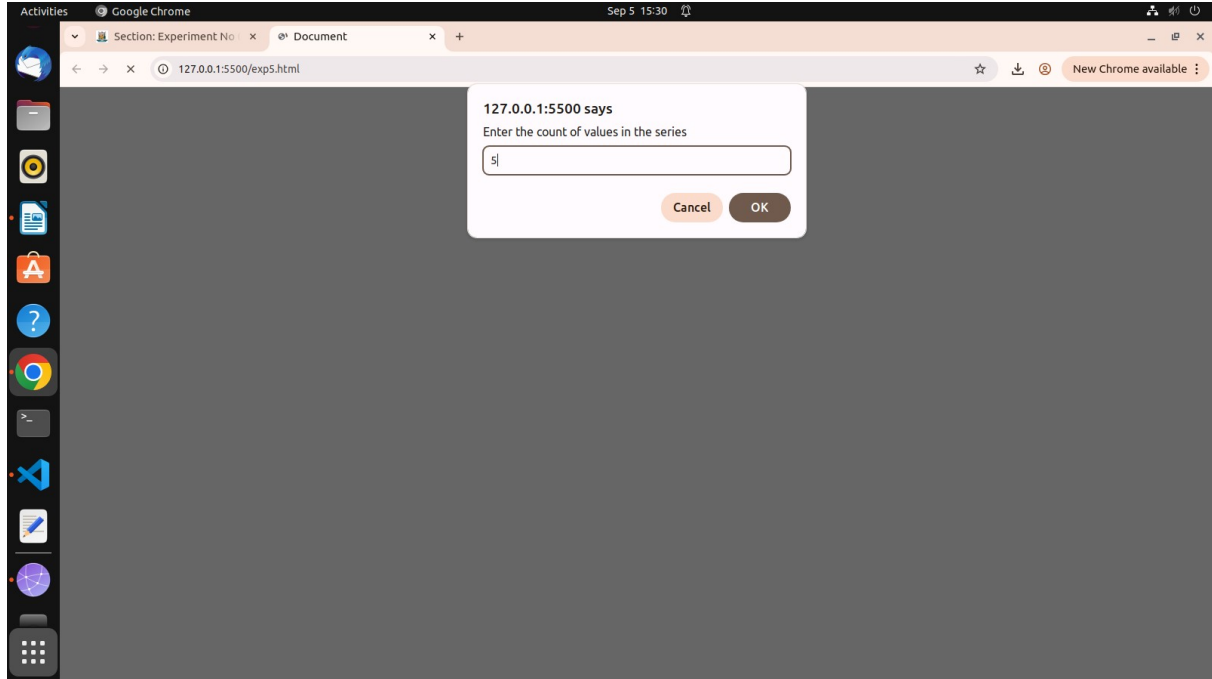
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
</head>
<body>
<div id="output"></div>
<script>
var fun = () => {
var a = parseInt(prompt("Enter the count of values in the series"));
var var1 = 0, var2 = 1;
var result = "Here is the Fibonacci series:<br>" + var1 + " " + var2 + " ";
for (var counter = 2; counter < a; counter++) {
var sum = var1 + var2;
result += sum + " ";
var1 = var2;
var2 = sum;
}
document.getElementById("output").innerHTML = result;
}
fun();
</script>
</body>
```



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Department of Information Technology
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`</html>`





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Conclusion: Hence we understood to implement ES6 functions.



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Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT B
Subject: IP Lab

Name of Student: Srushti Pankar
Student ID: 23104099
Roll No. 27
Date of Submission: 05-09-2025

Experiment No: 6

Aim: Write a program to apply validations to Registration Form.

Software Used: VS CODE

Code & Output:

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Form in HTML</title>
<style>
body{
background-color: lightblue;
}
.ff{
background-color: darkgrey;
font-family: Georgia, 'Times New Roman',
Times, serif;
font-size: 20px;
}
</style>
</head>
<body align="center">
<h2>Registration form </h2>
<form method="get" name="f1" class="ff">
<fieldset>
<legend>User Personal Information:</legend>
<label>Enter your name </label><br>
```




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```
<input type=""text" name="sname" onfocus="true" required><br><br>
<label>Enter your email </label><br>
<input type="email" name="email" onfocus="true" required><br><br>
<label>Enter your password </label><br>
<input type="password" name="pwd" required><br>
<label>confirm your password</label><br>
<input type="password" name="cpwd" required><br>
<br><label>Enter your gender</label><br>
<input type="radio" id="gender" name="gender" value="male"/>Male <br>
<input type="radio" id="gender" name="gender" value="female"/>Female <br>
<input type="radio" id="gender" name="gender" value="other"/>Other <br><br>
<br>Enter your Address:<br>
<textarea></textarea><br>
<input type="submit" value="Submit" onclick="val()">
<script>
function val()
{
let sname=document.forms["f1"]["sname"].value;
let email=document.f1.email.value;
let pwd=document.f1.pwd.value;
let cpwd=document.f1.cpwd.value;
let gen = document.f1.gender.value;
if(!(isNaN(sname))) {
alert("enter only characters for sname");
document.f1.sname.focus();
return false;
}
if(pwd.length<4||cpwd.length<4){
alert("password must be minimum 4 in length");
document.f1.pwd.focus();
return false;
}
if(pwd!=cpwd){
alert("password mismatch")
document.f1.pwd.focus();
return false;
}
let i;
for(i=0;i<3;i++)
{
if((gender[i].checked))
{
return true;
}
}
else
```



```
{  
alert("please choose gender");  
document.reg.gender.focus();  
return false;  
}  
}  
}  
}</script>  
</form>  
</body>  
</body>  
</html>
```



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Activities Google Chrome Sep 5 16:22

Section: Experiment No x Error Form in HTML x Form in HTML x Form in HTML x +

127.0.0.1:5500/exp6.html

New Chrome available

Registration form

User Personal Information:

Enter your name
Srushi Pankar

Enter your email
srush@gmail.com

Enter your password

confirm your password

Enter your gender
☐ Male
☒ Female
☐ Other

Enter your Address:
nitin

Submit

Activities Google Chrome Sep 5 16:24

Section: Experiment No x Form in HTML x +

127.0.0.1:5500/exp6.html

New Chrome available

127.0.0.1:5500 says
password must be minimum 4 in length

OK

Enter your email
srush@gmail.com

Enter your password

confirm your password

Enter your gender
☐ Male
☒ Female
☐ Other

Enter your Address:
pizzch

Submit



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The screenshot shows a Google Chrome browser window with the URL `127.0.0.1:5500/exp6.html?name=Srushti+Pankar&email=srush%40gmail.com&pwd=nikhil&cpwd=nikhil&gender=female&address=majiwada`. A modal dialog box is displayed in the center of the screen, titled "127.0.0.1:5500 says", with the message "Name must contain only characters." and an "OK" button. The background shows a registration form with fields for "Enter your email" (containing "srush@gmail.com"), "Enter your password", "Confirm your password", "Enter your gender" (with radio buttons for Male, Female, and Other), and "Enter your Address:" (containing "nitio"). A "Submit" button is at the bottom of the form.

The screenshot shows a Google Chrome browser window with the URL `127.0.0.1:5500/exp6.html`. The page displays a "Registration form" with the heading "User Personal Information:". The form includes fields for "Enter your name" (containing "Srushti Pankar"), "Enter your email" (containing "srush"), "confirm your password", "Enter your gender" (with radio buttons for Male, Female, and Other), and "Enter your Address:" (containing "nitio"). A validation error message is shown in a yellow box: "Please include an '@' in the email address. 'srush' is missing an '@'.". A "Submit" button is at the bottom of the form.

Conclusion: Hence we understood to apply validations to Registration Form.



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Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT B
Subject: IP Lab

Name of Student: Srushti Pankar
Student ID: 23104099
Roll No. 27
Date of Submission: 04-09-2025

Experiment No: 7

Aim: Write a program to implement ES6 Iterator & Promises

Software used: VS Code

Code & Output:

ITERATOR:

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Experiment 7</title>
</head>
<body>
<h2>Javascript Iterables</h2>
<p id="demo"></p>
<script>
const myNumbers = {};
myNumbers[Symbol.iterator] = function () {
let n = 0;
return {
next() {
n += 10;
if (n <= 100) {
return { value: n, done: false };
}
return { value: undefined, done: true };
}
}
}
```



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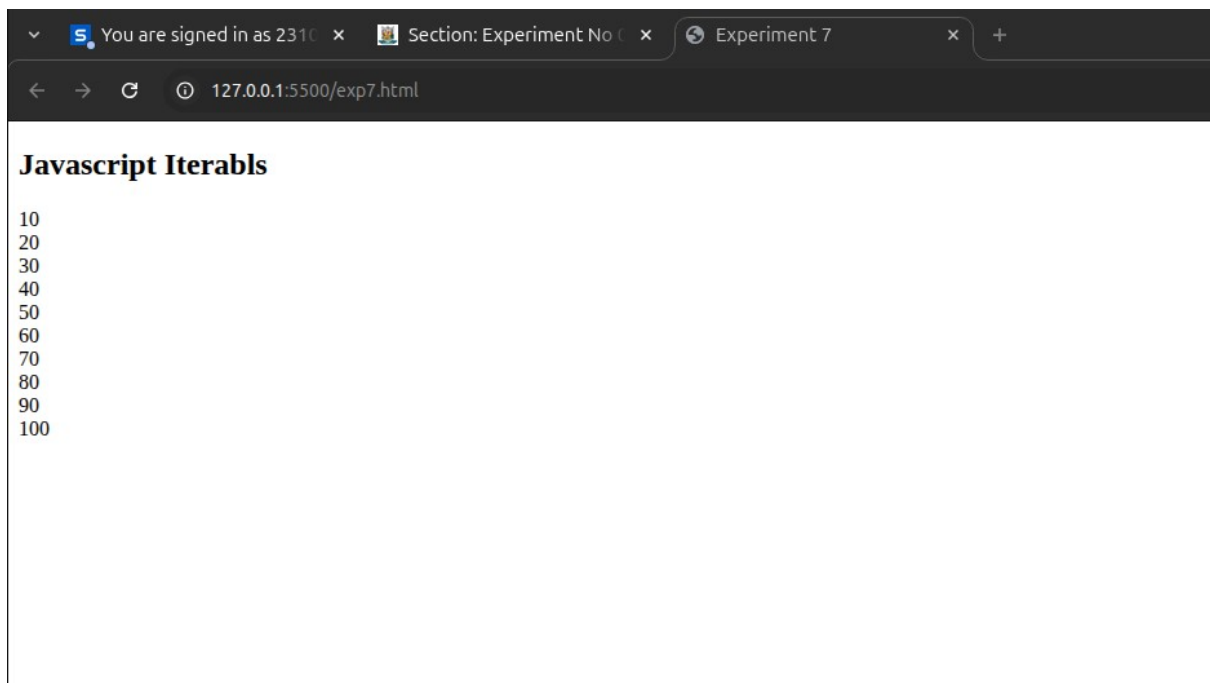
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```
};  
};  
let text = '';  
for (const num of myNumbers) {  
  text += num + "<br>";  
}  
document.getElementById("demo").innerHTML = text;  
</script>  
</body>  
</html>
```



Promises:

```
const myPromise = new Promise((resolve, reject) => {
```

```
  if (Math.random() > 0) {  
    console.log('resolving the promise...');  
    resolve('Hello, Positive:');  
  }  
  else {  
    reject(new Error('No place for Negative here :('));  
  }  
});
```



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```
myPromise
  .then((fulfilledValue) => {
    console.log(fulfilledValue);
  })
  .catch((err) => {
    console.log(err);
  });
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
• apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/srushti$ node promise.js
  resolving the promise...
  Hello, Positive:)
○ apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/srushti$
```

Conclusion: Hence we understood to implement ES6 Iterator and Promises.



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Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TE IT B
Subject: IP Lab

Name of Student: Srushti Pankar
Student ID:23104099
Roll No.:27
Date of Submission:26/09/25

Experiment No: 8

Aim: Write a program to demonstrate Class Component & Functional Component using React

Software Used: Visual Studio Code or Sublime Editor

Code & Output:

import React from "react" ;

function FunComp()

{

return(<h1 className="fun1">This is FunComp</h1>)

}

export default FunComp;

FunComp.js

import React , { Component } from 'react' ;

class ClassComp extends Component {

render() {

return <h2>Hello from class component!</h2>

}

}



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export default ClassComp

Class Comp.js

* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: Arial, sans-serif;

background-color: whitesmoke;

}

header {

background-color: black;

color: white;

padding: 15px;

display: flex;

justify-content: space-between;

align-items: center;

}

header input {

padding: 7px;

border-radius: 5px;

border: none;

}



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nav {

background-color: grey;

display: flex;

padding: 10px 20px;

}

nav a {

color: white;

text-decoration: none;

margin-right: 20px;

font-size: 14px;

}

main {

padding: 20px;

text-align: center;

}

.product-container {

display: flex;

justify-content: center;

flex-wrap: wrap;

gap: 20px;

margin-top: 20px

}

.product-card {

background-color: white;



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padding: 15px;

width: 180px;

border-radius: 10px;

box-shadow: 0 0 8px rgba(0, 0, 0, 0.1);

text-align: center;

}

.product-card img {

width: 100%;

height: 180px;

object-fit: contain;

}

.product-card p {

margin-top: 10px;

font-weight: bold;

}

.product-card span {

color: grey;

}

footer {

background-color: #1f1f1f;

color: white;

text-align: center;

padding: 10px 0;

margin-top: 30px;



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}

App.css

import React from "react" ;

import "./App.css"

function Portfolio() {

return (

<>

<header>

<h2>Online Shopping</h2>

<input type="text" placeholder="Search for products" />

</header>

<nav>

Home

Electronics

Fashion

Home & Kitchen

Books

More

</nav>

<main>

<h3>Featured Products</h3>

<div className="product-container">

<div className="product-card">

<p>Product 1</p>

\$29.99

</div>

<div className="product-card">

<p>Product 2</p>

\$49.99

</div>

<div className="product-card">

<p>Product 3</p>

\$19.99

</div>

<div className="product-card">

<p>Product 4</p>

\$99.99

</div>

</div>



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</main>

<footer>

<p>© 2024 Online Shopping. All rights reserved.</p>

</footer>

</>

};

}

export default Portfolio;

Portfolio.js

import react from 'react' ;

import FunComp from './FunComp';

import ClassComp from './ClassComp';

import Portfolio from './Portfolio';

function App()

{

return(

<div>

<FunComp></FunComp>

<ClassComp></ClassComp>

<Portfolio></Portfolio>

</div>

};

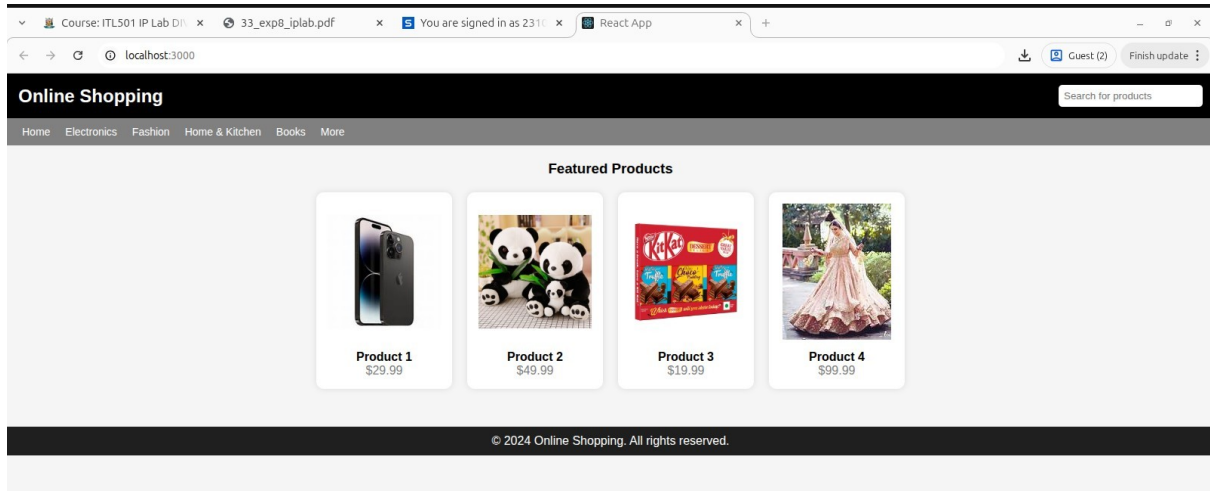
}

export default App;



App.js

Output:



Conclusion: Thus, we have studied how to create functional with their syntax. Also learned difference between functional & class components.



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Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT B
Subject: IP Lab

Name of Student: Srushti Pankar
Student ID: 23104099
Roll No. 27
Date of Submission: 7/10/25

Experiment No: 9

Aim: Write a program to demonstrate state and prop in React JS

Software Used: VS Code

Code & Output:

child.js `import React from`

"react";

```
function Child(props) { return  
(  
<div>  
<p>Name: {props.name}</p>  
<p>Age: {props.age}</p>  
</div>  
)
```

`export default Child;`

app.js
`import React from 'react'; import
Child from './Child'; import
'./App.css';`



```
function App() {  
  return (  
    <div className="App">  
      <h1>Parent Component</h1>  
      <Child name="Aarvi" age={20} />  
      <Child name="Moti" age={22} />  
    </div>  
  );  
</function>  
  
export default App;
```

OUTPUT:



```
counter.js import React, { useState }  
from "react";
```



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```
function Counter() {  
  const [count, setCount] = useState(0);  
  return (  
    <div>  
      <h2>Count: {count}</h2>  
      <button onClick={() => setCount(count + 1)}>+</button>  
      <button onClick={() => setCount(count - 1)}>-</button>  
    </div>  
  );  
}
```

```
export default Counter;
```

```
app.js import React from  
"react";  
import Counter from "./Counter"; // Make sure Counter.js exists in the same folder  
import "./App.css";
```

```
function App() {  
  return (  
    <div className="App">  
      <h1>Simple Counter App</h1>  
      <Counter />  
    </div>  
  );  
}
```

```
export default App;
```

OUTPUT:



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Count: 0



Conclusion: We have learn demonstration of state and prop in React JS



Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT B
Subject: IP Lab

Name of Student: Srushti Pankar
Student ID: 23104099
Roll No.27
Date of Submission:10/10/25

Experiment No: 10

Aim: Write a program to implement React JS Refs.

Code & Output:

```
src > JS UserRef.js > [?] default
1 import React, { Component } from 'react'
2
3 class UserRef extends Component {
4
5     constructor(){
6         super()
7         this.UserRef=React.createRef();
8     }
9
10    edit()
11    {
12        this.UserRef.current.style.backgroundColor="yellow"
13        this.UserRef.current.style.fontSize="100px"
14        this.UserRef.current.style.fontFamily="Lucida Handwriting" // Note: This font must
15
16    }
17    edit2(){
18        this.UserRef.current.style.display="none" //it will hide content
19    }
20    render() {
21        return (
22            <div>
23            <br />
```

On Your Network: http://192.168.13.191:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled **successfully**



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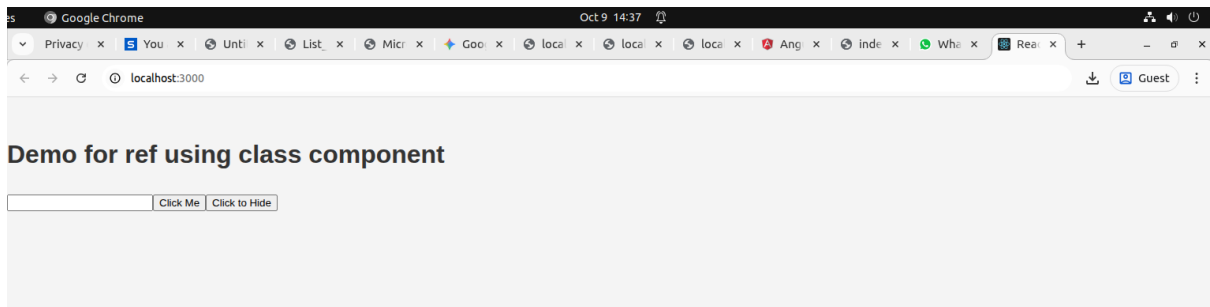


```
src > JS App.js > default
1 import './App.css';
2 import UserRef from './UserRef'
3 function App() {
4   return (
5     <div>
6       <UserRef></UserRef>
7     </div>
8   );
9 }
10
11 export default App;
```

On Your Network: <http://192.168.13.191:3000>

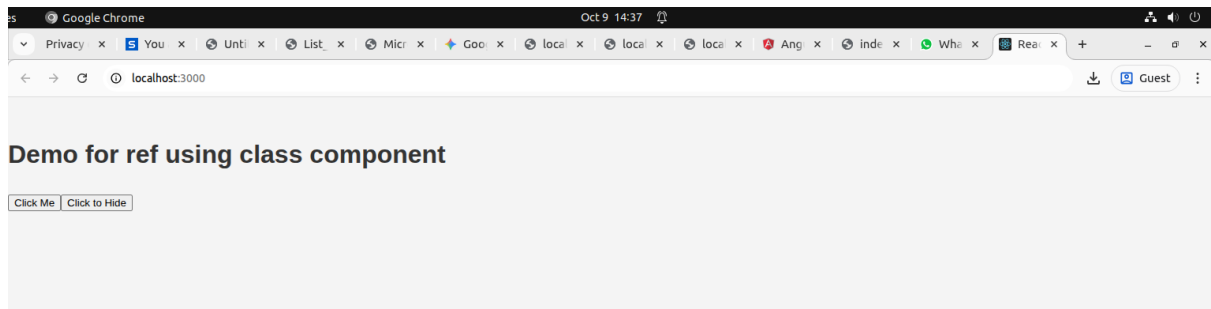
Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled **successfully**





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Conclusion: We understood to write a program to implement React JS Refs.



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Academic Year: 2025-26

Semester: V

Class / Branch/ Div: TEIT B

Subject: IP Lab

Name of Student: Srushti Pankar

Student ID: 23104099

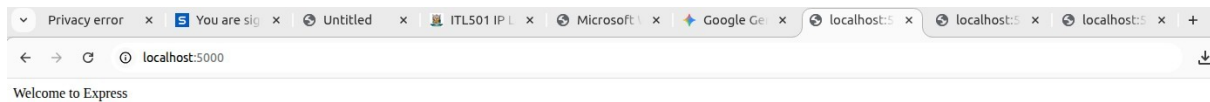
Roll No.27

Date of Submission:10/10/25

Experiment No: 11

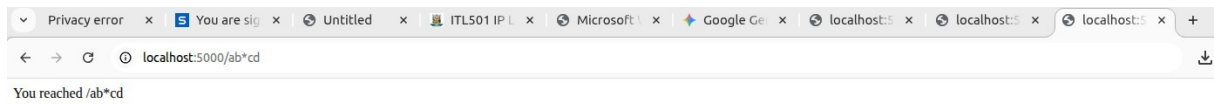
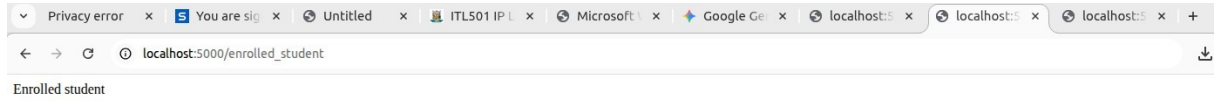
Aim: Write a program to create an application using Express App.

Code & Output:





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```
Visual Studio Code
Oct 9 13:57
exp11

EXPLORER
EXP11
  node_modules
  JS index1.js
  package-lock.json
  package.json

index1.js
1 var express = require('express');
2 var app = express();
3 app.get('/', function (req, res) {
4   console.log("Got a get request for the homepage");
5   res.send('Welcome to Express');
6 });
7 app.get('/enrolled_student', function(req, res) {
8   console.log("Got a get request for /enrolled_student");
9   res.send('Enrolled student');
10 });
11 app.get('/ab*cd', function(req, res) {
12   console.log("Got a get request for /ab*cd");
13   res.send('You reached /ab*cd');
14 });
15 var server = app.listen(5000, function(){
16   var host = server.address().address;
17   var port = server.address().port;
18   console.log('Server is running on port ' + port + ', host: ' + host);
19 });

TERMINAL
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/exp11$ sudo npm install -g nodemon
changed 29 packages in 5s
4 packages are looking for funding
  run 'npm fund' for details
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/exp11$ node index1.js
Server is running on port 5000, host: 5000
Got a get request for the homepage
Got a get request for /enrolled_student
Got a get request for /ab*cd
```

Conclusion: We understood the program to create an application using Express App.



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Academic Year: 2025-26

Semester: V

Class / Branch/ Div: TEIT B

Subject: IP Lab

Name of Student: Srushti Pankar

Student ID: 23104099

Roll No.: 27

Date of Submission: 10-10-2025

Experiment No: 12

Aim: Write a program to demonstrate various Angular JS Directives.

Software Used:

Code & Output:

```
<!DOCTYPE html>
<html lang="en" ng-app>
<head>
<meta charset="UTF-8">
<title>AngularJS Demo</title>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></
script>
</head>
<body>

<h2>1. Student Details (ng-bind)</h2>
<div ng-init="student={name:'Srushti', roll: 27, course:'IT'}">
Name: <span ng-bind="student.name"></span><br>
Roll No: <span ng-bind="student.roll"></span><br>
Course: <span ng-bind="student.course"></span>
```



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</div>

<h2>2. Simple Interest (ng-model)</h2>

Principal: <input type="number" ng-model="P">

Years: <input type="number" ng-model="N">

Rate (%): <input type="number" ng-model="R">

Simple Interest = {{(P * N * R) / 100}}

<h2>3. Area of Circle (ng-model)</h2>

Enter Radius: <input type="number" ng-model="radius">

Area = {{3.14 * radius * radius}}

</body>

</html>



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← → ↻ ⓘ 127.0.0.1:5500/exp12.html

1. Student Details (ng-bind)

Name: Srushti

Roll No: 27

Course: IT

2. Simple Interest (ng-model)

Principal:

Years:

Rate (%):

Simple Interest = NaN

3. Area of Circle (ng-model)

Enter Radius:

Area = NaN



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← → ↺ 127.0.0.1:5500/exp12.html

1. Student Details (ng-bind)

Name: Srushti

Roll No: 27

Course: IT

2. Simple Interest (ng-model)

Principal:

Years:

Rate (%):

Simple Interest = 50000

3. Area of Circle (ng-model)

Enter Radius:

Area = 1256

Conclusion: here by we have written a program to demonstrate various Angular JS Directives.