

PROGRAM 1

AIM: Design web pages for your college containing a description of the courses, departments, faculties, library, etc. Use href and list tags.

HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" type="text/css" href="/styles.css">
<title>My College Page</title>
</head>
<body>
<nav id="main-nav">
<div class="main-nav-logo">

</div>
<div class="main-nav-options-div">
<div class="main-nav-options">
<a href="#home">Home</a>
<a href="#courses">Courses</a>
<a href="#faculty">Faculty</a>
<a href="#library">Library</a>
<a href="#contact">Contact</a>
</div>
<div class="main-nav-indicator"></div>
</div>
</nav>

<section id="home" class="hero">

<div class="hero-text">
<h1>Welcome to My College</h1>
<p>Your future starts here</p>
<a href="http://bpitindia.ac.in/" class="hero-button">Explore More</a>
</div>
</section>
<section id="courses" class="container">
<h2>Our Courses</h2>
```

```
<div class="course-card">  
  
<h3>Computer Science Engineering</h3>  
</div>
```

```
<div class="course-card">  
  
<h3>Information Technology</h3>  
</div>
```

```
<div class="course-card">  
  
<h3>Artificial Intelligence And Data Science</h3>  
</div>
```

```
<div class="course-card">  
  
<h3>Electronics And Communication Engineering</h3>  
</div>
```

```
<div class="course-card">  
  
<h3>Electrical Electronics Engineering</h3>  
</div>
```

```
</section>
```

```
<section id="faculty" class="container">  
<h2>Meet Our Faculty</h2>
```

```
<p>Learn from experienced and highly qualified professors in various fields.</p>  
</section>
```

```
<section id="library" class="container">  
<h2>Library</h2>
```

```
<p>Our library is equipped with thousands of books, journals, and digital resources.</p>  
</section>
```

```
<footer id="contact">
```

```
<div class="footer-container">
```

```
<div class="footer-info">
```

```
<h2>Contact Us</h2>
```

```
<p>Email: <a href="mailto:bpitindia@yahoo.com">bpitindia@yahoo.com</a></p>
```

```
<p>Phone: 011-2757 1080, 011-2757 2900</p>
```

```
<p>Address: PSP-4, Dr. KN Katju Marg, Sector-17, Rohini, New Delhi-110089</p>
```

```
</div>
```

```
<div class="footer-links">
<h2>Quick Links</h2>
<ul>
<li><a href="#home">Home</a></li>
<li><a href="#courses">Courses</a></li>
<li><a href="#faculty">Faculty</a></li>
<li><a href="#library">Library</a></li>
</ul>
</div>
</div>
<div class="footer-bottom">
<p>© 2025 BPIT. All Rights Reserved.</p>
</div>
</footer>

<script src="/script.js"></script>
</body>
</html>
```

CSS

```
html {
scroll-behavior: smooth;
}

:root {
--main-background-color: white;
--main-theme-color:rgb(46, 48, 149);
--font-color: black;
--nav-background-color: white;
--horizontal-padding : 150px;
}

body {
background-color: var(--main-background-color);
padding: 0;
margin: 0;
}

h2 {
color: white;
}
```

```
#main-nav {  
  display: flex;  
  justify-content: space-around;  
  background-color: var(--nav-background-color);  
  padding: 5px;  
  text-align: center;  
  box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.2);  
  position: fixed;  
  top: 0;  
  left: 0;  
  width: 100%;  
  z-index: 100;  
}  
.main-nav-options-div {  
  position: relative;  
}  
  
.main-nav-indicator {  
  position: absolute;  
  height: 3px;  
  width: 50px;  
  bottom: 0;  
  left: 0;  
  background-color: var(--main-theme-color);  
  transition: 0.3s ease-in-out;  
}  
  
.main-nav-logo img{  
  width: 80px;  
  height: 40px;  
}  
  
.main-nav-options a {  
  text-decoration: none;  
  color: var(--main-theme-color);  
  font-weight: bold;  
  margin: 0 15px;  
  padding: 10px 15px;  
  display: inline-block;
```

```
border-radius: 5px;
font-size: large;
}

.main-nav-options a:hover {
background-color: rgb(46, 48, 149,0.2);
transition: 0.3s;
}

/* hero section */
.hero {
position: relative;
width: 100%;
height: 100vh;
overflow: hidden;
}

.hero img {
width: 100%;
height: 100%;
object-fit: cover;
}

.hero-text {
position: absolute;
top: 50%;
left: 50%;
padding: 50px;
transform: translate(-50%, -50%);
text-align: center;
color: white;
font-size: 2rem;
text-shadow: 2px 2px 10px rgba(0, 0, 0, 0.7);
border-radius: 10px;
background-color: rgba(255, 255, 255, 0.3);
}

.hero-button {
display: inline-block;
padding: 10px 20px;
background: var(--main-theme-color);
```

```
color: white;
text-decoration: none;
border-radius: 5px;
margin-top: 20px;
transition: background 0.3s ease-in-out;
}

.hero-button:hover {
background: #0056b3;
}

/* end of hero section */

.container {
margin-left: 15%;
margin-right: 15%;
}
.container h2{
color: var(--main-theme-color);
}

/* Course Section */
.course-card {
display: inline-block;
width: 300px;
height: 250px;
border: solid 1px black;
border-radius: 10px;
text-align: center;
background: white;
padding: 10px;
overflow: hidden;
margin: 50px;
margin-top: 0px;
box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.2);
}

.course-card img {
width: 100%;
height: 200px;
object-fit: contain;
```

```
}
```

```
.course-card h3 {  
font-size: 1.2rem;  
margin-top: 10px;  
padding: 0 10px;  
}
```

```
/* end of course section */  
footer {  
background-color: var(--main-theme-color);  
color: white;  
text-align: center;  
padding: 30px 0;  
}
```

```
.footer-container {  
display: flex;  
justify-content: space-around;  
flex-wrap: wrap;  
max-width: 1200px;  
margin: auto;  
padding: 20px;  
}  
.footer-info, .footer-links, .footer-social {  
width: 30%;  
min-width: 250px;  
padding: 10px;  
}  
.footer-links ul {  
list-style: none;  
padding: 0;  
}  
.footer-links ul li {  
margin: 10px 0;  
}
```

```
.footer-links a, .footer-info a {  
color: #f1c40f;  
text-decoration: none;
```

```
}  
.footer-social img {  
width: 30px;  
margin: 5px;  
}  
.footer-bottom {  
background-color: rgb(14, 15, 78);  
padding: 10px 0;  
font-size: 14px;  
}
```

JAVASCRIPT

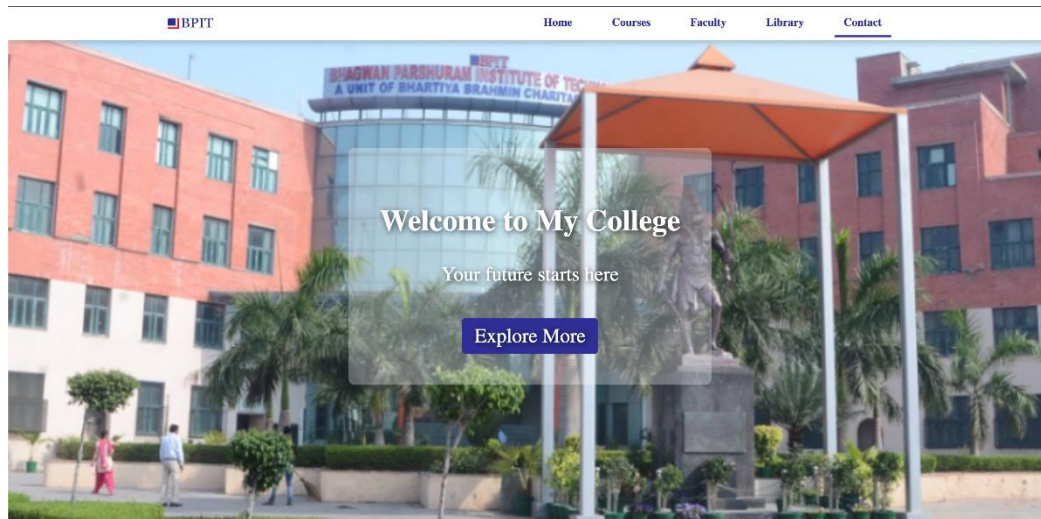
```
const navOptions = document.querySelectorAll(".main-nav-options a");  
const indicator = document.querySelector(".main-nav-indicator");
```

```
function moveIndicator(target) {  
let width = target.offsetWidth;  
let left = target.offsetLeft;  
indicator.style.width = `${width}px`;  
indicator.style.left = `${left}px`;  
}
```

```
document.addEventListener("DOMContentLoaded", () => {  
const activeLink = document.querySelector(".main-nav-options a.active") || navOptions[0];  
moveIndicator(activeLink);  
});
```

```
navOptions.forEach((link) => {  
link.addEventListener("click", (e) => {  
navOptions.forEach(link => link.classList.remove("active"));  
e.target.classList.add("active");  
moveIndicator(e.target);  
});  
});
```


OUTPUT



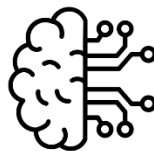
Our Courses



Computer Science Engineering



Information Technology



Artificial Intelligence And Data Science



Electronics And Communication Engineering

Meet Our Faculty

Learn from experienced and highly qualified professors in various fields.

Library

Our library is equipped with thousands of books, journals, and digital resources.

Contact Us

Email: hptindia@yahoo.com

Phone: 011-2757 1080, 011-2757 2900

Address: PSP-4, Dr. KN Katju Marg, Sector-17, Rohini,
New Delhi-110089

Quick Links

[Home](#)

[Courses](#)

[Faculty](#)

[Library](#)

PROGRAM 2

AIM: Write HTML code to develop a webpage having two frames that divide the webpage into two equal rows and then divide the row into equal columns. Fill each frame with a different background color.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>2x2 Grid Layout</title>
<style>
* {
margin: 0;
padding: 0;
box-sizing: border-box;
}

body, html {
height: 100%;
width: 100%;
display: flex;
}

.container {
width: 100%;
height: 100%;
display: flex;
flex-direction: column;
}

.row {
flex: 1;
display: flex;
}

.box {
flex: 1;
display: flex;
justify-content: center;
```

```
align-items: center;
font-size: 24px;
font-weight: bold;
color: white;
}

/* Different Background Colors */
.box1 { background-color: red; }
.box2 { background-color: blue; }
.box3 { background-color: green; }
.box4 { background-color: orange; }
</style>
</head>
<body>
<div class="container">
<div class="row">
<div class="box box1">Box 1</div>
<div class="box box2">Box 2</div>
</div>
<div class="row">
<div class="box box3">Box 3</div>
<div class="box box4">Box 4</div>
</div>
</div>
</body>
</html>
```

OUTPUT



PROGRAM 3

AIM: Design a web page of your hometown with an attractive background color, text color, an image, and a font (use inline CSS).

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>My Hometown</title>
<link rel="stylesheet" href="styles.css">
<style>
/* Internal CSS */
body {
background-color: lightblue;
font-family: Copperplate, "Copperplate Gothic Light";
}
.content {
text-align: center;
margin: 50px;
}
img {
width: 900px;
height: auto;
border-radius: 10px;
}
</style>
</head>
<body>
<div class="content">
<h1 style="color: darkblue;">Welcome to My Hometown</h1> <!-- Inline CSS -->
<p style="color: darkgreen;">My hometown is a beautiful place known for its rich culture and
history.</p>

</div>
</body>
</html>
```

OUTPUT

WELCOME TO MY HOMETOWN

MY HOMETOWN IS A BEAUTIFUL PLACE KNOWN FOR ITS RICH CULTURE AND HISTORY.



PROGRAM 4

AIM: Use External, Internal, and Inline CSS to format the college webpage that you created.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" type="text/css" href="/styles.css"> <!-- External CSS -->
<title>My College Page</title>

<style>
/* Internal CSS */
body {
font-family: Arial, sans-serif;
background-color: #f4f4f4;
margin: 0;
padding: 0;
}
h2 {
color: #0056b3;
text-align: center;
}
.container {
padding: 20px;
background-color: #fff;
border-radius: 10px;
margin: 20px;
}
</style>
</head>
<body>
<nav id="main-nav" style="background-color: white; padding: 10px;"> <!-- Inline CSS -->
<div class="main-nav-logo">

</div>
<div class="main-nav-options-div">
<div class="main-nav-options">
<a href="#home" style="margin: 0 10px;">Home</a> <!-- Inline CSS -->
<a href="#courses">Courses</a>
<a href="#faculty">Faculty</a>
<a href="#library">Library</a>
<a href="#contact">Contact</a>
</div>
<div class="main-nav-indicator"></div>
```

```
</div>
</nav>

<section id="home" class="hero">

<div class="hero-text">
<h1>Welcome to My College</h1>
<p>Your future starts here</p>
<a href="http://bpitindia.ac.in/" class="hero-button">Explore More</a>
</div>
</section>
<section id="courses" class="container">
<h2>Our Courses</h2>
<div class="course-card">

<h3>Computer Science Engineering</h3>
</div>

<div class="course-card">

<h3>Information Technology</h3>
</div>

<div class="course-card">

<h3>Artificial Intelligence And Data Science</h3>
</div>

<div class="course-card">

<h3>Electronics And Communication Engineering</h3>
</div>

<div class="course-card">

<h3>Electrical Electronics Engineering</h3>
</div>
</section>

<section id="faculty" class="container">
<h2>Meet Our Faculty</h2>
<p>Learn from experienced and highly qualified professors in various fields.</p>
</section>

<section id="library" class="container">
<h2>Library</h2>
```


<p>Our library is equipped with thousands of books, journals, and digital resources.</p>
</section>

<footer id="contact" style="background-color: #222; color: white; padding: 20px;"> <!-- Inline CSS -->

<div class="footer-container">

<div class="footer-info">

<h2>Contact Us</h2>

<p>Email: bpitindia@yahoo.com</p>

<p>Phone: 011-2757 1080, 011-2757 2900</p>

<p>Address: PSP-4, Dr. KN Katju Marg, Sector-17, Rohini, New Delhi-110089</p>

</div>

<div class="footer-links">

<h2>Quick Links</h2>

Home

Courses

Faculty

Library

</div>

</div>

<div class="footer-bottom">

<p>© 2025 BPIT. All Rights Reserved.</p>

</div>

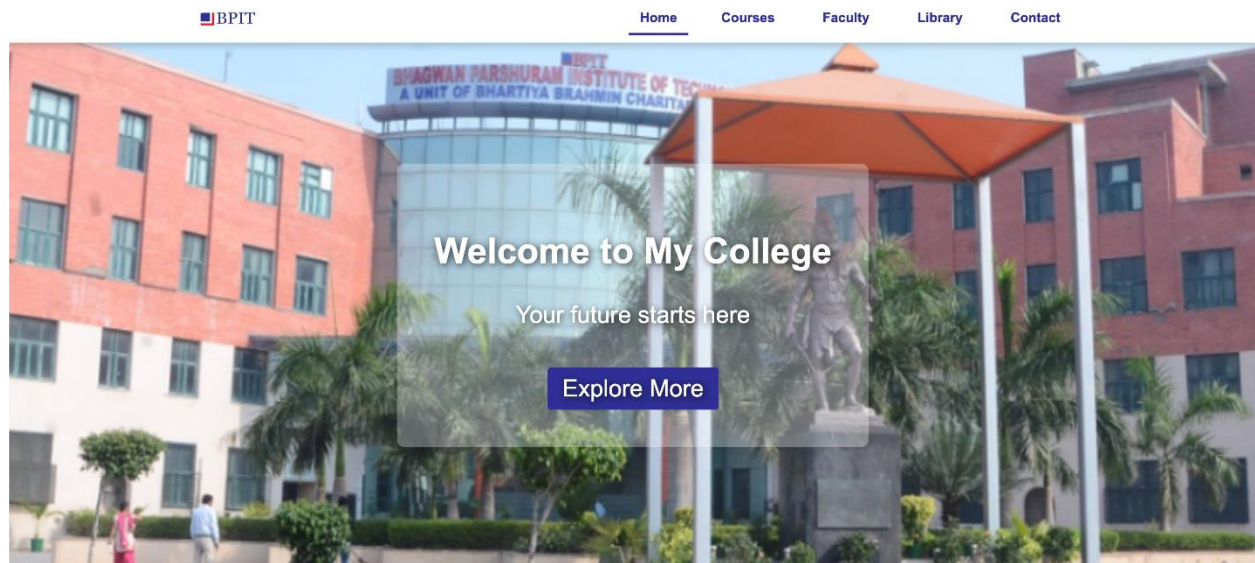
</footer>

<script src="/script.js"></script>

</body>

</html>

OUTPUT



PROGRAM 5

AIM: Create an HTML page with JavaScript that takes an integer number as input and tells whether the number is ODD or EVEN.

HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" type="text/css" href="styles.css">
<title>Even-Odd</title>
</head>
<body>
<form id="numberForm">
<h1>Find if Number is Even or Odd</h1>
<input id="Input" type="text" placeholder="Enter Number Here"><br>
<button id="Button" type="submit">Check</button>
<p id="Result"></p>
</form>

<script src="script.js"></script>
</body>
</html>
```

CSS

```
body {
margin: 0;
padding: 0;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
background-color: #f0f0f0;
font-family: Arial, sans-serif;
}

form {
text-align: center;
```

```
background: white;  
padding: 20px;  
border-radius: 10px;  
box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);  
}
```

```
#Input {  
padding: 10px;  
margin: 10px 0;  
border: 1px solid #ccc;  
border-radius: 5px;  
}
```

```
#Button {  
padding: 10px 20px;  
border: none;  
background: blue;  
color: white;  
cursor: pointer;  
border-radius: 5px;  
}
```

```
#Button:hover {  
background: darkblue;  
}
```

```
#Result {  
margin-top: 10px;  
font-weight: bold;  
}
```

JAVASCRIPT

```
document.getElementById("numberForm").addEventListener("submit", function(event) {  
event.preventDefault();  
let inputValue = document.getElementById("Input").value;  
let resultText = document.getElementById("Result");  
  
if (isNaN(inputValue) || inputValue.trim() === "") {  
resultText.textContent = "Please enter a valid number.";  
resultText.style.color = "red";  
}
```

```
    } else {  
    let number = parseInt(inputValue);  
    if (number % 2 === 0) {  
    resultText.textContent = `${number} is Even.`;  
    resultText.style.color = "green";  
    } else {  
    resultText.textContent = `${number} is Odd.`;  
    resultText.style.color = "blue";  
    }  
    }  
    });
```

OUTPUT

Find if Number is Even or Odd

23

Check

23 is Odd.

Find if Number is Even or Odd

22

Check

22 is Even.