

WEB TECHNOLOGY ASSIGNMENT

CODING:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>College Resource Hub</title>

  <style>

    body {

      font-family: 'Poppins', sans-serif;

      background-color: #EAF2F8;

      margin: 0;

      padding: 0;

      color: #333;

    }

    .header {

      background-color: #154360;

      color: white;

      padding: 20px 0;

      text-align: center;

      font-weight: 600;

      letter-spacing: 1px;

    }

    .header h1 {

      margin: 0;

      font-size: 36px;

      letter-spacing: 2px;

      color: #F1C40F;

    }

    .container {
```

```
margin: 40px auto;

padding: 20px;

width: 80%;

max-width: 1200px;

background-color: #fff;

border-radius: 8px;

box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.1);
}

h2 {

font-size: 24px;

color: #154360;

margin-bottom: 10px;

border-bottom: 2px solid #F1C40F;

padding-bottom: 5px;
}

ul {

list-style-type: none;

padding: 0;
}

ul li {

margin-bottom: 10px;
}

a {

text-decoration: none;

color: #154360;

font-weight: bold;

transition: 0.3s;
}

a:hover {

color: #F1C40F;

text-decoration: underline;
}

table {
```

```
width: 100%;

border-collapse: collapse;

margin-top: 20px;
}

th, td {

padding: 12px;

border: 1px solid #ddd;

text-align: left;
}

th {

background-color: #154360;

color: white;
}

td {

background-color: #F8F9FA;
}

tr:nth-child(even) {

background-color: #E3E7ED;
}

tr:hover {

background-color: #DCE1EB;
}

.info-box {

background-color: #F8F9FA;

padding: 20px;

border-left: 4px solid #154360;

margin-top: 30px;

font-weight: 400;
}

.canvas-container {

margin-top: 40px;

text-align: center;
}
```

```
canvas {  
    width: 100%;  
    height: 400px;  
    background-color: #FFEB3B; /* Yellow background */  
    border-radius: 8px;  
    border: 2px solid #154360;  
    cursor: crosshair;  
}  
  
.controls {  
    margin-bottom: 10px;  
}  
  
.controls label {  
    font-weight: bold;  
}  
  
.color-picker {  
    margin-left: 10px;  
}  
  
.clear-button {  
    background-color: #154360;  
    color: white;  
    border: none;  
    padding: 8px 12px;  
    border-radius: 5px;  
    cursor: pointer;  
    margin-left: 10px;  
    font-weight: bold;  
}  
  
.clear-button:hover {  
    background-color: #1A5276;  
}  
  
.json-container {  
    background-color: #F4F4F4;  
    padding: 20px;
```

```
        margin-top: 40px;

        border-radius: 8px;

        font-family: monospace;
    }
</style>
</head>
<body>

<div class="header">

    <h1>College Resource Hub</h1>
</div>

<div class="container">

    <h2>Useful College Links</h2>

    <ul>

        <li><a href="https://www.nptel.ac.in" target="_blank">NPTEL Courses</a></li>

        <li><a href="https://www.coursera.org" target="_blank">Coursera</a></li>

        <li><a href="https://www.udemy.com" target="_blank">Udemy</a></li>

    </ul>

    <h2>Departments & Faculty</h2>

    <table>

        <tr>

            <th>Department</th>

            <th>Head of Department</th>

            <th>Specialization</th>

        </tr>

        <tr>

            <td>Computer Science</td>

            <td>Dr. A. Kumar</td>

            <td>AI & Machine Learning</td>

        </tr>

        <tr>
```

<td>Electronics</td>
<td>Dr. S. Mehta</td>
<td>IoT & Embedded Systems</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Dr. R. Sharma</td>
<td>Robotics & Automation</td>
</tr>
</table>

<p>College Resource Hub helps students explore courses, faculty expertise, and academic resources. Stay ahead in your learning journey!</p>

</div>

Draw Notes or Diagrams</h2>

Select Color:</div><input type="color" id="colorPicker" class="color-picker" value="#154360"><button id="clearCanvas" class="clear-button">Clear Canvas</button></div><canvas id="myCanvas" width="600" height="400"></canvas></div>

College Details (JSON Format)</h2><pre id="jsonData"></pre></div></div>

```
// Canvas Drawing with Color Picker

const canvas = document.getElementById("myCanvas");
const ctx = canvas.getContext("2d");

let painting = false;

let brushColor = document.getElementById("colorPicker").value;


// Set initial background color

ctx.fillStyle = "#FFEB3B"; // Yellow background
ctx.fillRect(0, 0, canvas.width, canvas.height);


function startPosition(e) {
    painting = true;
    draw(e);
}

function endPosition() {
    painting = false;
    ctx.beginPath();
}

function draw(e) {
    if (!painting) return;

    ctx.lineWidth = 4; // Fixed brush size
    ctx.lineCap = "round";
    ctx.strokeStyle = brushColor;
    ctx.lineTo(e.clientX - canvas.offsetLeft, e.clientY - canvas.offsetTop);
    ctx.stroke();
    ctx.beginPath();
    ctx.moveTo(e.clientX - canvas.offsetLeft, e.clientY - canvas.offsetTop);
}


canvas.addEventListener("mousedown", startPosition);
canvas.addEventListener("mouseup", endPosition);
canvas.addEventListener("mousemove", draw);
```

```
document.getElementById("colorPicker").addEventListener("input", function () {  
    brushColor = this.value;  
});
```

```
document.getElementById("clearCanvas").addEventListener("click", function () {  
    ctx.clearRect(0, 0, canvas.width, canvas.height);  
    ctx.fillStyle = "#FFEB3B"; // Preserve yellow background color  
    ctx.fillRect(0, 0, canvas.width, canvas.height);  
});
```

```
// Display JSON Data
```

```
const collegeData = {  
    "name": "Global Institute of Technology",  
    "location": "Bangalore, India",  
    "established": 2002,  
    "principal": "Dr. Priya Nair",  
    "departments": 6  
};  
  
document.getElementById("jsonData").textContent = JSON.stringify(collegeData, null, 4);
```

```
</script>
```

```
</body>
```

```
</html>
```


OUTPUT

College Resource Hub

Useful College Links

NPTEL Courses

Coursera

Udemy

Departments & Faculty

Department	Head of Department	Specialization
Computer Science	Dr. A. Kumar	AI & Machine Learning
Electronics	Dr. S. Mehta	IoT & Embedded Systems
Mechanical Engineering	Dr. R. Sharma	Robotics & Automation

College Resource Hub

helps students explore courses, faculty expertise, and academic resources. Stay ahead in your learning journey!

Draw Notes or Diagrams

Select Color:

Clear Canvas

College Details (JSON Format)

```
{  "name": "Global Institute of Technology",  "location": "Bangalore, India",  "established": 2002,  "principal": "Dr. Priya Nair",  "departments": 6}
```