

LAB ASSIGNMENT-14.3

Name: Akhil

ID : 2303A53024

Batch-46

Task-1

Generate a responsive personal portfolio website using semantic HTML5, CSS Flexbox, and smooth scrolling navigation with hover effects on project cards.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Portfolio</title>
<style>
body{margin:0;font-family:Arial;scroll-behavior:smooth}
nav{background:#222;padding:15px;text-align:center}
nav a{color:#fff;margin:0 15px;text-decoration:none}
nav a:hover{color:cyan}
section{padding:60px 20px;text-align:center}
.projects{display:flex;flex-wrap:wrap;justify-content:center;gap:20px}
.card{background:#f4f4f4;padding:20px;width:250px;border-radius:10px;transition:0.3s}
.card:hover{transform:scale(1.05);box-shadow:0 0 15px rgba(0,0,0,0.3)}
footer{background:#222;color:#fff;padding:20px}
@media(max-width:768px){.projects{flex-direction:column;align-items:center}}
```

```

</style>
</head>
<body>
<nav>
<a href="#home">Home</a>
<a href="#about">About</a>
<a href="#projects">Projects</a>
<a href="#contact">Contact</a>
</nav>
<section id="home"><h1>Welcome to My Portfolio</h1></section>
<section id="about"><h2>About Me</h2><p>B.Tech Student | Web Developer</p></section>
<section id="projects">
<h2>Projects</h2>
<div class="projects">
<div class="card">Project 1</div>
<div class="card">Project 2</div>
<div class="card">Project 3</div>
</div>
</section>
<section id="contact"><h2>Contact</h2><p>Email: example@email.com</p></section>
<footer>© 2026 My Portfolio</footer>
</body>
</html>

```

Task-2

Create a responsive restaurant landing page with navigation bar, CSS card-based menu section, and JavaScript image slider with smooth transitions.

Code:

```
<!DOCTYPE html>

<html>
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Restaurant</title>
    <style>
      body{margin:0;font-family:Arial}
      nav{background:#111;padding:15px;text-align:center}
      nav a{color:#fff;margin:0 15px;text-decoration:none}
      .menu{display:flex;flex-wrap:wrap;justify-content:center;gap:20px;padding:20px}
      .card{background:#f8f8f8;padding:20px;width:200px;border-radius:8px;transition:0.3s}
      .card:hover{transform:translateY(-10px)}
      .slider{position:relative;width:80%;margin:auto}
      .slider img{width:100%;display:none}
    </style>
  </head>
  <body>
    <nav>
      <a href="#">Home</a>
      <a href="#">Menu</a>
      <a href="#">Gallery</a>
      <a href="#">Contact</a>
    </nav>
    <section class="menu">
      <div class="card">Pizza</div>
      <div class="card">Burger</div>
      <div class="card">Pasta</div>
    </section>
```

```

<div class="slider">
  
  
  
</div>
<script>
let index=0;
let slides=document.querySelectorAll(".slide");
function showSlide(){
  slides.forEach(s=>s.style.display="none");
  index++;
  if(index>slides.length) index=1;
  slides[index-1].style.display="block";
  setTimeout(showSlide,2000);
}
showSlide();
</script>
</body>
</html>

```

Task-3

Generate a responsive event registration form with HTML, CSS styling, and JavaScript real-time validation for email format, phone length, and required fields.

Code:

```

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">

```

```
<title>Event Registration</title>

<style>
body{font-family:Arial;background:#f4f4f4}
form{background:#fff;padding:20px;width:300px;margin:50px auto;border-radius:8px}
input,select{width:100%;padding:8px;margin:10px 0}
button{padding:10px;background:#007bff;color:#fff;border:none;width:100%}
.error{color:red;font-size:12px}
</style>
</head>
<body>
<form onsubmit="return validate()">
<h2>Register</h2>
<input type="text" id="name" placeholder="Name">
<span id="nameErr" class="error"></span>
<input type="email" id="email" placeholder="Email">
<span id="emailErr" class="error"></span>
<input type="text" id="phone" placeholder="Phone">
<span id="phoneErr" class="error"></span>
<select id="event">
<option value="">Select Event</option>
<option>Hackathon</option>
<option>Workshop</option>
</select>
<span id="eventErr" class="error"></span>
<button type="submit">Submit</button>
</form>

<script>
function validate(){
```

```

let valid=true;

document.querySelectorAll(".error").forEach(e=>e.innerHTML="");

if(name.value==""){nameErr.innerHTML="Name required";valid=false;}

if(!email.value.includes("@")){emailErr.innerHTML="Invalid Email";valid=false;}

if(phone.value.length!=10){phoneErr.innerHTML="Phone must be 10 digits";valid=false;}

if(event.value==""){eventErr.innerHTML="Select event";valid=false;}

return valid;

}

</script>

</body>

</html>

```

Task-4

Create a grid-based e-commerce product catalog with Add to Cart functionality, cart counter at top-right, and visual feedback when product is added.

Code:

```

<!DOCTYPE html>

<html>
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>E-Commerce</title>
    <style>
      body{font-family:Arial}
      .cart{position:fixed;top:10px;right:20px;font-size:20px}
      .products{display:grid;grid-template-columns:repeat(auto-fit,minmax(200px,1fr));gap:20px;padding:20px}
      .card{padding:20px;border:1px solid #ddd;text-align:center}
      button{padding:8px;background:green;color:#fff;border:none}
    </style>
  </head>
  <body>
    <div class="cart">0</div>
    <div class="products">
      <div class="card">
        
        <h3>Product 1</h3>
        <p>Description 1</p>
        <button>Add to Cart</button>
      </div>
      <div class="card">
        
        <h3>Product 2</h3>
        <p>Description 2</p>
        <button>Add to Cart</button>
      </div>
      <div class="card">
        
        <h3>Product 3</h3>
        <p>Description 3</p>
        <button>Add to Cart</button>
      </div>
    </div>
  </body>
</html>

```

```
</style>

</head>

<body>

<div class="cart">Cart  <span id="count">0</span></div>

<div class="products">

<div class="card">

<h3>Product 1</h3>

<button onclick="add()">Add to Cart</button>

</div>

<div class="card">

<h3>Product 2</h3>

<button onclick="add()">Add to Cart</button>

</div>

</div>

<script>

let count=0;

function add(){

count++;

document.getElementById("count").innerText=count;

alert("Product Added!");

}

</script>

</body>

</html>
```

Task-4

Generate a responsive web layout with header navigation, main content area, and footer using HTML5 and CSS with media queries.

Code:

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Responsive Layout</title>
<style>
body{margin:0;font-family:Arial}
header{background:#333;color:#fff;padding:20px;text-align:center}
nav a{color:#fff;margin:0 10px;text-decoration:none}
main{padding:20px}
footer{background:#222;color:#fff;text-align:center;padding:15px}
@media(max-width:768px){
nav{display:block}
nav a{display:block;margin:10px 0}
}
</style>
</head>
<body>
<header>
<h1>My Website</h1>
<nav>
<a href="#">Home</a>
<a href="#">About</a>
<a href="#">Contact</a>
</nav>
</header>
```

```
<main>
<h2>Main Content</h2>
<p>This layout adapts to mobile and desktop screens.</p>
</main>
<footer>
    © 2026 Responsive Website
</footer>
</body>
</html>
```