

LAB ASSIGNMENT-14.3

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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>
```

```

</sec on>

<div class="slider">


 

</div>   <script>   let   index=0;   let
slides=document.querySelectorAll(".slide");
func           on           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(autofit,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">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>
```