

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>Personal 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>
<sec on id="home"><h1>Welcome to My Por olio</h1></sec on>
<sec on id="about"><h2>About Me</h2><p>B.Tech Student | Web
Developer</p></sec on>
<sec on 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>
</sec on>
<sec on id="contact"><h2>Contact</h2><p>Email: example@email.com</p></sec on>
<footer>© 2026 My Por olio</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, ini al-scale=1">
<tle>Restaurant</tle>
<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;jus fy-content:center;gap:20px;padding:20px}
.card{background:#f8f8f8;padding:20px;width:200px;border-radius:8px;transi on:0.3s}
.card:hover{transform:translateY(-10px)}
.slider{positi on:rela ve;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>
<sec on 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 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}      bu
on{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">
<op on value="">Select Event</op on>
<op on>Hackathon</op on>
<op on>Workshop</op on>
</select>

<span id="eventErr" class="error"></span>

<bu on type="submit">Submit</bu on>

</form>

<script> func on

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}
bu on{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>
<bu on onclick="add()">Add to Cart</bu on>
</div>
<div class="card">
<h3>Product 2</h3>
<bu on onclick="add()">Add to Cart</bu on>
</div>
</div>
<script> let
count=0;
func on add(){ count++;
document.getElementById("count").innerText=coun
t; 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>
```