A) Create a Responsive Web Page using HTML & CSS
AIM:
Create a Responsive Web Page that adjusts layout based on screen size using HTML & CSS
ALGORITHM:
Step 1: Create an HTML File (index.html).
- Define the document structure using

- Apply flexbox and grid for a responsive design.

Step 4: Enhance User Experience. - Add hover effects and transitions for interactivity. - Ensure text is readable on all devices. Step 5: Test Responsiveness. - Open the web page on different screen sizes or use developer tools to check responsiveness. PROGRAM: **INDEX.HTML**: <!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Responsive Web Design</title> <link rel="stylesheet" href="styles.css"> </head> <body> <header> <h1>Welcome to Responsive Web Design</h1> </header> <nav> ul>

```
<a href="#">Home</a>
      <a href="#">About</a>
      <a href="#">Services</a>
      <a href="#">Contact</a>
    </nav>
  <main>
    <section class="content">
      <h2>About Responsive Design</h2>
      Responsive design makes web pages look good on all devices.
    </section>
  </main>
  <footer>
    © 2025 Responsive Web Design
  </footer>
</body>
</html>
STYLES.CSS:
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  text-align: center;
```

}

```
header {
  background-color: #007bff;
  color: white;
  padding: 20px;
}
nav ul {
  list-style: none;
  padding: 0;
}
nav ul li {
  display: inline;
  margin: 0 15px;
}
nav ul li a {
  text-decoration: none;
  color: #007bff;
}
.content {
  padding: 20px;
}
footer {
  background-color: #f4f4f4;
```

```
padding: 10px;
}
@media (max-width: 600px) {
  nav ul {
     display: flex;
     flex-direction: column;
     align-items: center;
  }
  nav ul li {
     margin: 10px 0;
  }
}
OUTPUT:
(Screenshot of the responsive web page on different screen sizes.)
```

RESULT: The responsive web page using HTML & CSS is successfully created.