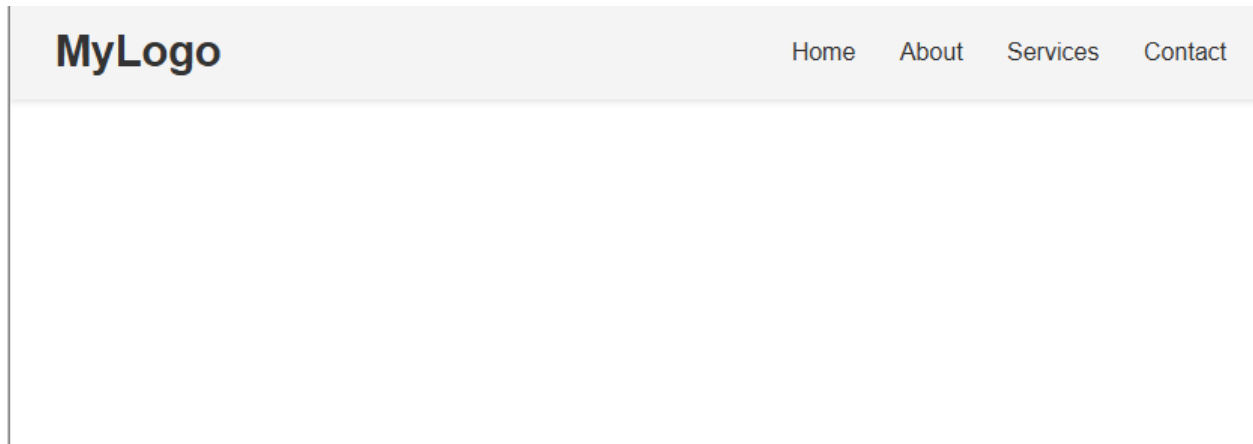


How can you create following header layout using html and css flex:-



Step 1:- create header.css file code :-

```
/* Reset some default styles */  
  
* {  
  box-sizing: border-box;  
  margin: 0;  
  padding: 0;  
}  
  
body  
  {  
    font-family: Arial, sans-serif;  
  }
```

```
/* Header styling */  
  
.header {  
  
  display: flex;  
  
  justify-content: space-between;  
  
  align-items: center;  
  
  padding: 15px 30px;  
  
  background-color: #f4f4f4;  
  
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);  
  
}
```

```
.logo  
  
  {  
  
  font-size: 1.8em;  
  
  font-weight: bold;  
  
  color: #333;  
  
}
```

```
.menu a {  
  
  margin-left: 25px;  
  
  text-decoration: none;  
  
  color: #333;  
  
  font-size: 1em;  
  
  transition: color 0.3s ease;  
  
}
```

```
.menu a:hover {
  color: #007bff;
}

/* Responsive menu for smaller screens (optional) */
@media (max-width: 600px) {
  .header {
    flex-direction: column;
    align-items: flex-start;
  }

  .menu {
    margin-top: 10px;
  }

  .menu a {
    display: block;
    margin: 5px 0;
  }
}
```

Setp 2:- create header.html file code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<meta charset="UTF-8">

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

<title>Flexbox Logo and Menu</title>

<link rel="stylesheet" href="header.css" />

</head>

<body>

<header class="header">

  <div class="logo">MyLogo</div>

  <nav class="menu">

    <a href="#">Home</a>

    <a href="#">About</a>

    <a href="#">Services</a>

    <a href="#">Contact</a>

  </nav>

</header>

</body>

</html>
```

Here's a line-by-line explanation of CSS code, so you understand exactly what each part does:-

□ Global Reset

```
* {
  box-sizing: border-box;
  margin: 0;
  padding: 0;
}
```

- *: This selector applies the rules to **all elements** on the page.
 - box-sizing: border-box;: Makes **padding and border included** in the element's total width and height, making layouts more predictable.
 - margin: 0; padding: 0;: Removes default **spacing** that browsers add around elements.
-

□ ♂ □ Body Styling

```
body {
  font-family: Arial, sans-serif;
}
```

- font-family: Arial, sans-serif;: Sets the **default font** for the entire webpage to Arial. If Arial isn't available, it falls back to a generic **sans-serif** font.
-

□ Header Styling

```
.header {
  display: flex;
  justify-content: space-between;
  align-items: center;
  padding: 15px 30px;
  background-color: #f4f4f4;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
}
```

- display: flex;: Makes the .header a **flex container**.
- justify-content: space-between;: Places children (like logo and menu) at **opposite ends** of the header.
- align-items: center;: **Vertically centers** the children inside the header.
- padding: 15px 30px;: Adds **15px top/bottom** and **30px left/right** spacing inside the header.
- background-color: #f4f4f4;: Gives the header a **light gray background**.

- `box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);`: Adds a **subtle shadow** under the header for depth.
-

□ Logo Styling

```
.logo {
  font-size: 1.8em;
  font-weight: bold;
  color: #333;
}
```

- `font-size: 1.8em;`: Makes the logo text **1.8× larger** than normal.
 - `font-weight: bold;`: Makes the text **bold**.
 - `color: #333;`: Sets the text color to a **very dark gray** (almost black).
-

□ Menu Link Styling

```
.menu a {
  margin-left: 25px;
  text-decoration: none;
  color: #333;
  font-size: 1em;
  transition: color 0.3s ease;
}
```

- `.menu a`: Targets **anchor (<a> tags** inside an element with class `menu`.
- `margin-left: 25px;`: Adds space to the **left of each link**.
- `text-decoration: none;`: Removes the **underline** from links.
- `color: #333;`: Dark gray link color.
- `font-size: 1em;`: Uses the **default text size**.
- `transition: color 0.3s ease;`: Adds a **smooth transition effect** when the link color changes (e.g., on hover).

□ Link Hover Effect

```
.menu a:hover {
  color: #007bff;
}
```

- When the user **hovers** over a link, it changes color to **blue** (`#007bff`).
-

□ Responsive Design (for small screens)

```
@media (max-width: 600px) {  
  .header {  
    flex-direction: column;  
    align-items: flex-start;  
  }  
  
  .menu {  
    margin-top: 10px;  
  }  
  
  .menu a {  
    display: block;  
    margin: 5px 0;  
  }  
}
```

□ @media (max-width: 600px)

This block runs **only when screen width is 600px or less** (like on phones).

- `.header { flex-direction: column; }`: Stacks the children (logo and menu) **vertically** instead of horizontally.
- `align-items: flex-start;`: Aligns children to the **left** (instead of centered).
- `.menu { margin-top: 10px; }`: Adds spacing **above** the menu.
- `.menu a { display: block; margin: 5px 0; }`: Makes each link take a full **line**, and adds **vertical spacing** between them.