

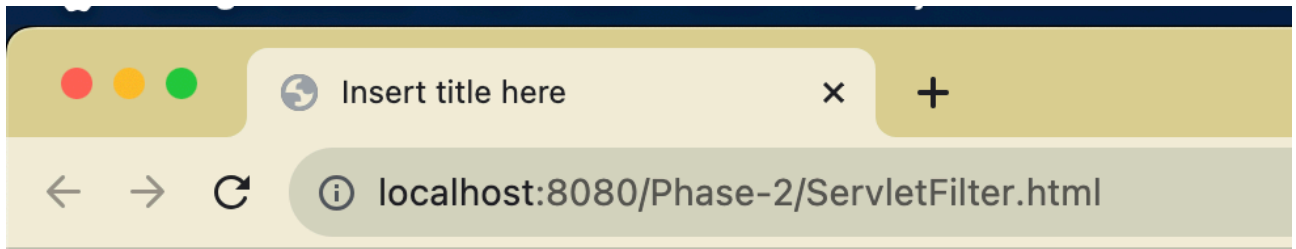
5. Write a program to demonstrate a Servlet Filter.

```
package AssistedPractice;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class LoggingFilter
 */
public class LoggingFilter implements Filter {
    private static final long serialVersionUID = 1L;
    @Override
    public void init(FilterConfig filterConfig) throws ServletException {
        // Initialization code
    }
    @Override
    public void doFilter(ServletRequest request, ServletResponse response,
        FilterChain chain)
        throws IOException, ServletException {
        // Pre-processing code
        System.out.println("Request received from: " + request.getRemoteAddr());
        // Forward the request down the filter chain
        chain.doFilter(request, response);
        // Post-processing code
    }
    @Override
    public void destroy() {
        // Cleanup code
    }
}
```

```
Html
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<h1>Servlet Filter Demo</h1>
<p>This is a demonstration of a servlet filter in action.</p>
</body>
</html>
```

Output :-



Servlet Filter Demo

This is a demonstration of a servlet filter in action.