

HTTP Web clients using sockets

PROGRAM:

```
import java.io.*;
import java.net.*;

public class HTTPwebclient {

    public static void main(String[] args) {

        String host = "example.com"; // Change this to the desired website

        int port = 80;           // HTTP uses port 80

        try (Socket socket = new Socket(host, port)) {

            // Send HTTP GET request to server

            PrintWriter out = new PrintWriter(socket.getOutputStream(), true);

            out.println("GET / HTTP/1.1");

            out.println("Host: " + host);

            out.println("Connection: close");

            out.println(); // Empty line indicates end of request

            // Read and print the response

            BufferedReader in = new BufferedReader(new
InputStreamReader(socket.getInputStream()));

            String line;

            System.out.println("=== Web Page Content ===");

            while ((line = in.readLine()) != null) {

                System.out.println(line);

            }

        } catch (IOException e) {

            System.out.println("Error: " + e.getMessage());

            e.printStackTrace();

        }

    }

}
```

```
}  
  
}
```

OUTPUT:

```
==== Web Page Content ====  
HTTP/1.1 200 OK  
Content-Type: text/html  
ETag: "84238dfc8092e5d9c0dac8ef93371a07:1736799080.121134"  
Last-Modified: Mon, 13 Jan 2025 20:11:20 GMT  
Cache-Control: max-age=913  
Date: Tue, 17 Jun 2025 06:17:47 GMT  
Content-Length: 1256  
Connection: close  
  
<!doctype html>  
<html>  
<head>  
  <title>Example Domain</title>  
  
  <meta charset="utf-8" />  
  <meta http-equiv="Content-type" content="text/html; charset=utf-8" />  
  <meta name="viewport" content="width=device-width, initial-scale=1" />  
  <style type="text/css">  
    body {  
      background-color: #f0f0f2;  
      margin: 0;  
      padding: 0;  
      font-family: -apple-system, system-ui, BlinkMacSystemFont, "Segoe UI", "Open Sans", "Helvetica Neue", Helvetica, Arial, sans-serif;  
    }  
    div {  
      width: 600px;  
      margin: 5em auto;  
      padding: 2em;  
      background-color: #fdfdff;  
      border-radius: 0.5em;  
      box-shadow: 2px 3px 7px 2px rgba(0,0,0,0.02);  
    }  
    a:link, a:visited {  
      color: #38488f;  
      text-decoration: none;  
    }  
  </style>  
</head>  
  
<body>  
<div>  
  <h1>Example Domain</h1>  
  <p>This domain is for use in illustrative examples in documents. You may use this  
  domain in literature without prior coordination or asking for permission.</p>  
  <p><a href="https://www.iana.org/domains/example">More information...</a></p>  
</div>  
</body>  
</html>
```