**Explore the HTTP/2 Client of Java 9**

The first step is to import the module jdk.incubator.httpclient.

module com.springui.echo.client {

requires jdk.incubator.httpclient;

}

HTTP/2- web server. How to successfully execute a GET request using the new HTTP/2 supported client APIs:

**package** http2client;

**import** java.io.IOException;

**import** java.net.URI;

**import** jdk.incubator.http.HttpClient;

**import** jdk.incubator.http.HttpRequest;

**import** jdk.incubator.http.HttpResponse;

**public** **class** Http2ClientExample {

**public** **static** **void** main(String[] args) **throws** IOException, InterruptedException {

HttpClient client = HttpClient.newHttpClient();

HttpRequest request = HttpRequest.newBuilder(URI.create("https://www.google.com")).GET().build();

HttpResponse.BodyHandler responseBodyHandler = HttpResponse.BodyHandler.asString();

HttpResponse response = client.send(request, responseBodyHandler);

System.out.println("Status code = " + response.statusCode());

String body = response.body().toString();

System.out.println(body); }

This should give the following output:

Status code = 302

<HTML><HEAD><meta http-equiv="content-type" content="text/html;charset=utf-8">

<TITLE>302 Moved</TITLE></HEAD><BODY>

<H1>302 Moved</H1>

The document has moved

<A HREF="https://www.google.co.in/?gfe\_rd=cr&amp;ei=v6prWa24Es2L8QfZ-bvgBQ">here</A>.

</BODY></HTML>

**Note**: Simply running the above program in eclipse may generate NoClassDefFoundError. To run the above program from eclipse IDE without encountering the said error at runtime, we need to add vm argument to use incubator module for http/2 support. In the Run Configurations, add the following as VM arguments:

--add-modules jdk.incubator.httpclient

## Saving Response Body Locally

package http2client;

**import** java.io.IOException;

**import** java.net.URI;

**import** java.nio.file.Files;

**import** java.nio.file.Path;

**import** java.nio.file.Paths;

**import** jdk.incubator.http.HttpClient;

**import** jdk.incubator.http.HttpRequest;

**import** jdk.incubator.http.HttpResponse;

public class Http2ClientExample {

public **static** void main(String[] args) throws IOException, InterruptedException {

HttpClient client = HttpClient.newHttpClient();

HttpRequest request = HttpRequest.newBuilder(URI.create("https://www.google.com")).GET().build();

Path test = Paths.get(System.getProperty("user.dir"), "testFile.html");

HttpResponse<Path> response = client.send(request, HttpResponse.BodyHandler.asFile(test));

System.out.println(response.statusCode());

}

}