The steps to follow for sending Java HTTP requests using HttpURLConnection class.

1. Create URL object from the GET/POST URL String.
2. Call openConnection() method on URL object that returns instance of HttpURLConnection
3. Set the request method in HttpURLConnection instance, default value is GET.
4. Call setRequestProperty() method on HttpURLConnection instance to set request header values, such as “User-Agent” and “Accept-Language” etc.
5. We can call getResponseCode() to get the response HTTP code. This way we know if the request was processed successfully or there was any HTTP error message thrown.
6. For GET, we can simply use Reader and InputStream to read the response and process it accordingly.
7. For POST, before we read response we need to get the OutputStream from HttpURLConnectioninstance and write POST parameters into it.

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.io.OutputStream;

import java.net.HttpURLConnection;

import java.net.URL;

public class HttpURLConnectionExample {

private static final String USER\_AGENT = "Mozilla/5.0";

private static final String GET\_URL = "http://localhost:8080/Helloworld";

private static final String POST\_URL = "http://localhost:8080/Hello/home";

private static final String POST\_PARAMS = "userName=Ram";

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

sendGET();

System.out.println("GET DONE");

sendPOST();

System.out.println("POST DONE");

}

private static void sendGET() throws IOException {

URL obj = new URL(GET\_URL);

HttpURLConnection con = (HttpURLConnection) obj.openConnection();

con.setRequestMethod("GET");

con.setRequestProperty("User-Agent", USER\_AGENT);

int responseCode = con.getResponseCode();

System.out.println("GET Response Code :: " + responseCode);

if (responseCode == HttpURLConnection.HTTP\_OK) { // success

BufferedReader in = new BufferedReader(new InputStreamReader(

con.getInputStream()));

String inputLine;

StringBuffer response = new StringBuffer();

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

response.append(inputLine);

}

in.close();

// print result

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

} else {

System.out.println("GET request not worked");

}

}

private static void sendPOST() throws IOException {

URL obj = new URL(POST\_URL);

HttpURLConnection con = (HttpURLConnection) obj.openConnection();

con.setRequestMethod("POST");

con.setRequestProperty("User-Agent", USER\_AGENT);

// For POST only - START

con.setDoOutput(true);

OutputStream os = con.getOutputStream();

os.write(POST\_PARAMS.getBytes());

os.flush();

os.close();

// For POST only - END

int responseCode = con.getResponseCode();

System.out.println("POST Response Code :: " + responseCode);

if (responseCode == HttpURLConnection.HTTP\_OK) { //success

BufferedReader in = new BufferedReader(new InputStreamReader(

con.getInputStream()));

String inputLine;

StringBuffer response = new StringBuffer();

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

response.append(inputLine);

}

in.close();

// print result

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

} else {

System.out.println("POST request not worked");

}

}

}