POST-requests from Java

We haven't done any post request from Java up until now. With plain Java this is a bit cumbersome, compared to how we do it with JavaScript using either JQuery or Angular.

The (plain-Java) example given below demonstrates how to make a POST-reservation up against our test airline (replace XXXXXXXX with a flight-id returned by a ticket request)

It contains an escaped version of the JSON required for the request. When this is implemented in your server, this JSON will be sent from the client and is therefore already generated.

There are many alternative Java Libraries which can simplify a POST-request (Apaches HttpClient as an example) but before you go for that, try our example. It does show you how to handle POST-request at the protocol-level, so there is something to learn from this.

Try also, to make an illegal request (seats <=0, wrong date format etc.) to see how an error-response is handled.

```java
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.io.PrintWriter;
import java.net.HttpURLConnection;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.Scanner;

public class Post {
  private static String url = "http://angularairline-plaul.rhcloud.com/api/flightreservation";
  private static String json = "{\n"
        + "  \"flightID\":\"XXXXXXXX\",\n"
        + "  \"numberOfSeats\":2,\n"
        + "  \"reserveeName\":\"Peter Hansen\",\n"
        + "  \"reservePhone\":\"12345678\",\n"
        + "  \"reserveeEmail\":\"peter@peter.dk\",\n"
        + "  \"passengers\":[\n"
        + "    {\"firstName\":\"Peter\",\"lastName\":\"Peterson\"},\n"
        + "    {\"firstName\":\"Jane\",\"lastName\":\"Peterson\"}\n"
        + "  ]\n"
        + "}";

  public static void main(String[] args) throws MalformedURLException, IOException {
    HttpURLConnection con = (HttpURLConnection) new URL(url).openConnection();
    con.setRequestProperty("Content-Type", "application/json;");
    con.setRequestProperty("Accept", "application/json");
    con.setRequestProperty("Method", "POST");
    con.setDoOutput(true);
    PrintWriter pw = new PrintWriter(con.getOutputStream());
    try (OutputStream os = con.getOutputStream()) {
      os.write(json.getBytes("UTF-8"));
    }
    int HttpResult = con.getResponseCode();
    InputStreamReader is = HttpResult < 400 ? new InputStreamReader(con.getInputStream(), "utf-8") :
                    new InputStreamReader(con.getErrorStream(), "utf-8");
    Scanner responseReader = new Scanner(is);
    String response = "";
    while (responseReader.hasNext()) {
      response += responseReader.nextLine()+System.getProperty("line.separator");
    }
    System.out.println(response);
    System.out.println(con.getResponseCode());
    System.out.println(con.getResponseMessage());
  }
}
```