```
* To change this template, choose Tools | Templates
* and open the template in the editor.
package <a href="com.exchange">com.exchange</a>;
import <u>iava.io</u>.*;
import java.net.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.InputStream;
import java.net.*;
import <a href="mailto:com.google.gson.">com.google.gson.</a>*;
/**
* @author pakallis
class Recv
private String Ihs;
private String rhs;
private String error;
private String icc;
public Recv(
public String getLhs()
return lhs;
public String getRhs()
return rhs;
public class Convert extends HttpServlet {
   * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
methods.
   * @param request servlet request
   * @param response servlet response
   * @throws ServletException if a servlet-specific error occurs
   * @throws IOException if an I/O error occurs
  protected void processRequest(HttpServletRequest req, HttpServletResponse resp)
        throws ServletException, IOException {
```

```
String query = "";
     String amount = "";
     String curTo = "";
     String curFrom = "";
     String submit = "";
     String res = "";
     HttpSession session;
     resp.setContentType("text/html;charset=UTF-8");
     PrintWriter out = resp.getWriter();
     /*Read request parameters*/
     amount = req.getParameter("amount");
     curTo = req.getParameter("to");
     curFrom = req.getParameter("from");
     /*Open a connection to google and read the result*/
    try {
       query = "http://www.google.com/ig/calculator?hl=en&q=" + amount + curFrom + "=?" +
curTo;
       URL url = new URL(query);
       InputStreamReader stream = new InputStreamReader(url.openStream());
       BufferedReader in = new BufferedReader(stream);
       String str = "";
       String temp = "";
       while ((temp = in.readLine()) != null) {
          str = str + temp;
       }
       /*Parse the result which is in json format*/
       Gson gson = new Gson();
       Recv st = gson.fromJson(str, Recv.class);
       String rhs = st.getRhs();
       rhs = rhs.replaceAll("�", "");
       /*we do the check in order to print the additional word(millions,billions etc)*/
       StringTokenizer strto = new StringTokenizer(rhs);
       String nextToken;
       out.write(strto.nextToken());
       nextToken = strto.nextToken();
       if( nextToken.equals("million") || nextToken.equals("billion") || nextToken.equals("trillion"))
       {
          out.println(" "+nextToken);
     } catch (NumberFormatException e) {
       out.println("The given amount is not a valid number");
    }
  // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the
```

```
left to edit the code.">
  /**
   * Handles the HTTP <code>GET</code> method.
   * @param request servlet request
   * @param response servlet response
   * @throws ServletException if a servlet-specific error occurs
   * @throws IOException if an I/O error occurs
   */
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    processRequest(request, response);
  }
   * Handles the HTTP <code>POST</code> method.
   * @param request servlet request
   * @param response servlet response
   * @throws ServletException if a servlet-specific error occurs
   * @throws IOException if an I/O error occurs
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    processRequest(request, response);
  }
  /**
   * Returns a short description of the servlet.
   * @return a String containing servlet description
  @Override
  public String getServletInfo() {
    return "Short description";
  }// </editor-fold>
```