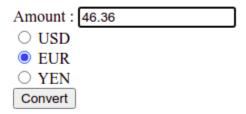
## PROGRAM 1: Currency Converter

```
index.jsp
<@ page language="java" contentType="text/html; charset=ISO-8859-1"
     pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
    <title>Convertor</title>
  </head>
  <body>
    <% out.print("<h1>Converter</h1>");%>
    <form method='POST' action="ConvertNumbers">
       Amount: <input type=text value="0.0" name='val 1'><br>
       <input type="radio" id="USD" name="op" value="USD">
       <label for="USD">USD</label><br>
       <input type="radio" id="EUR" name="op" value="EUR">
       <label for="EUR">EUR</label><br>
       <input type="radio" id="YEN" name="op" value="YEN">
       <label for="YEN">YEN</label><br>
       <input type='submit' value="Convert">
    </form>
  </body>
</html>
```

```
Convert.java
package com.mylogic;
import javax.ejb.LocalBean;
import javax.ejb.Stateless;
@Stateless
@LocalBean
public class Convert implements ConvertRemote {
  public Convert() {
  }
  public double toUSD(double a){
       return (a / 73.37);
  }
  public double to YEN (double a) {
       return (a / 0.66);
 public double toEUR(double a){
       return (a / 86.28);
  }
}
ConvertNumbers.java
package com.mylogic;
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.*;
@WebServlet("/ConvertNumbers")
public class ConvertNumbers extends HttpServlet {
  private static final long serialVersionUID = 1L;
  public ConvertNumbers() {
```

```
super();
  }
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
     double a = Double.parseDouble(request.getParameter("val_1"));
     String op = request.getParameter("op");
     double result = 0.0;
     Convert obj = new Convert();
     if ("USD".equals(op)) {
       result = obj.toUSD(a);
     } else if ("EUR".equals(op)) {
       result = obj.toEUR(a);
    } else{
       result = obj.toYEN(a);
     }
     response.setContentType("text/html");
     PrintWriter out = response.getWriter();
     out.print("<h1>Converted</h1>");
     out.print("The result is : <b>" + result + "</b>");
  }
}
ConvertRemote.java
package com.mylogic;
import javax.ejb.Remote;
@Remote
public interface ConvertRemote {
  public double to USD (double a);
  public double to YEN (double a);
  public double toEUR(double a);
}
```

## **Converter**



# **Converted**

The result is: 0.5373203523412147

### PROGRAM 2: Room Reservation

```
index.html
<html>
<body>
  <meta http-equiv="Refresh" content="0; url='/onlineShop/purchase" />
</body>
</html>
purchase.java
package com.mycompany.rentroom;
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
* @author shankar
public class purchase extends HttpServlet {
  private Connection conn;
  public Connection listItems(HttpServletRequest request, HttpServletResponse response,
Connection conn)
       throws ServletException, IOException {
     PrintWriter out = response.getWriter();
```

```
try {
      Statement stmt = conn.createStatement();
      String sql = "SELECT * FROM room det";
      ResultSet rs = stmt.executeQuery(sql);
      int ctr = 0:
      out.println("<form action='/onlineShop/checkout' method='get'>");
      out.println("Checkin date : <input type=\"date\" id=\"checkin\" name=\"checkin\">");
      out.println("Checkout date : <input type=\"date\" id=\"checkout\" name=\"checkout\">");
      out.println(" Num Beds Room Name Room
Quantity Room Cost Buying");
      while (rs.next()) {
         String bed = rs.getString("room_bed");
         String name = rs.getString("room_name");
         String num = rs.getString("room num");
         String cost = rs.getString("room_cost");
         String hide = cost+","+ name;
         out.println(" " + bed + "" + name + "" + num + "" + num + ""
+ cost);
         out.println(" Rs<input type='submit' name = 'hide' value= "" +hide
+"'>");
         ctr++;
      }
      out.println("");
      out.println("<input type='hidden' name = 'counter' value = ""+ctr+"'</input></form>");
    } catch (Exception e) {
      e.printStackTrace();
      System.out.println("Error in select all");
    return conn;
  }
  public Connection getConnection(HttpServletResponse response) throws IOException {
    PrintWriter out = response.getWriter();
    try {
      String url = "jdbc:mysql://localhost/temp";
      String username = "root";
      String password = "";
      Class.forName("com.mysql.jdbc.Driver");
      conn = DriverManager.getConnection(url, username, password);
```

```
} catch (Exception e) {
       e.printStackTrace();
       out.println("Error occurred while connecting to database");
     return conn;
  }
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     response.setContentType("text/html;charset=UTF-8");
     PrintWriter out = response.getWriter();
     try {
       getConnection(response);
       listItems(request, response, conn);
     } finally {
       out.close();
    }
  }
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     processRequest(request, response);
  }
}
checkout.java
package com.mycompany.rentroom;
import javax.ejb.Stateful;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
```

```
import java.util.Vector;
import java.text.DateFormat;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.concurrent.TimeUnit;
import java.util.logging.Level;
import java.util.logging.Logger;
/**
* @author shankar
public class checkout extends HttpServlet {
  Bill obj = new Bill();
  public void listItems(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException, ParseException {
    PrintWriter out = response.getWriter();
    String[] temp = request.getParameter("hide").split(",");
    String inDate = request.getParameter("checkin");
    String outDate = request.getParameter("checkout");
    String price = temp[0];
    String name = temp[1];
    Vector<Room> rooms = obj.addItem(name, price, inDate, outDate);
    Date date1=new SimpleDateFormat("yyyy-MM-dd").parse(inDate);
    Date date2=new SimpleDateFormat("yyyy-MM-dd").parse(outDate);
    long time_difference = date2.getTime() - date1.getTime();
    long days difference = TimeUnit.MILLISECONDS.toDays(time difference) % 365;
    int bill = 0;
    out.println(""
         + " Name
QuantityCostInOut");
    for (Room room: rooms) {
      int total = room.getQuant() * room.getCost();
      out.println("" + room.getName() + "" + room.getQuant() + ""
           + total +
"Rs."+room.getEntryDate()+""+room.getExitDate()+"");
      bill += total;
    out.println("");
```

```
out.println("Number of days = " + days_difference + "<br/>);
     out.println("Bill = " + bill*days_difference + " <br > <a href = 'payment' > <input type =
'button' value = 'Click to pay'> </a>");
  }
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException, ParseException {
     response.setContentType("text/html;charset=UTF-8");
     PrintWriter out = response.getWriter();
     try {
       listItems(request, response);
     } finally {
       out.close();
     }
  }
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     try {
       processRequest(request, response);
     } catch (ParseException ex) {
       Logger.getLogger(checkout.class.getName()).log(Level.SEVERE, null, ex);
     }
payment.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
* @author shankar
*/
public class payment extends HttpServlet {
```

```
public void doGet(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException {
    res.setContentType("text/html");
     PrintWriter pw = res.getWriter();
    pw.println("Payment successful");
  }
Bill.java
package com.mycompany.rentroom;
import javax.ejb.Stateful;
import javax.servlet.http.HttpServlet;
import java.util.Vector;
* @author shankar
*/
@Stateful
public class Bill extends HttpServlet implements BillRemote {
  static Vector<Room> rooms = new Vector<Room>();
  @Override
  public Vector<Room> addItem(String name, String price, String inDate, String outDate) {
    for(Room room : rooms){
       if(room.getName().equals(name))
         room.setQuant( room.getQuant()+1 );
         return rooms;
    }
     rooms.add(new Room(name,Integer.parseInt(price),1, inDate, outDate));
    return rooms;
  }
}
```

```
BillRemote.java
package com.mycompany.rentroom;
import java.util.Vector;
import javax.ejb.Remote;
/**
* @author shankar
*/
@Remote
public interface BillRemote {
  public Vector<Room> addItem(String name, String price, String inDate, String outDate);
}
Room.java
package com.mycompany.rentroom;
class Room {
  String name;
  int cost;
  int quant;
  String entryDate;
  String exitDate;
  public Room(){
  }
  public Room(String name, int cost, int quant, String entryDate, String exitDate){
    this.name = name;
    this.cost = cost;
    this.quant = quant;
    this.entryDate = entryDate;
    this.exitDate = exitDate;
  }
```

```
public String getName() {
  return name;
}
public void setName(String name) {
  this.name = name;
}
public int getCost() {
  return cost;
}
public void setCost(int cost) {
  this.cost = cost;
}
public int getQuant() {
  return quant;
}
public void setQuant(int quant) {
  this.quant = quant;
}
public String getEntryDate() {
  return entryDate;
}
public void setEntryDate(String entryDate) {
  this.entryDate = entryDate;
}
public String getExitDate() {
  return exitDate;
}
public void setExitDate(String exitDate) {
  this.exitDate = exitDate;
}
```

}

Checkin date :	04/16/2021		Checkout date:	04/19/2021	
----------------	------------	--	----------------	------------	--

Num Beds	Room Name	Room Quantity	Room Cost	Buying
2	basic	7	1500 Rs	1500,basic
1	mini	11	900 Rs	900,mini

Name	Quantity	Cost	In	Out
basic	1	1500Rs.	2021-04-16	2021-04-19
mini	2	1800Rs.	2021-04-16	2021-04-19

Number of days = 3

Bill = 9900

Click to pay

# PROGRAM 3 : Shopping Cart

#### Code:

index.html

<html>

<body>

<meta http-equiv="Refresh" content="0; url='/onlineShop/homepage" />

</body>

</html>

### BIII.java

package com.mycompany.onlineshop;

import javax.ejb.Stateful;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

```
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
import java.util.Vector;
public class Bill extends HttpServlet implements BillRemote {
  static Vector<Item> cart = new Vector<Item>();
  @Override
  public Vector<Item> addItem(String name, String price) {
    for(Item item : cart){
       if(item.getName().equals(name))
         item.setQuant()+1 );
         return cart;
       }
    }
    cart.add(new Item(name,Integer.parseInt(price),1));
    return cart;
  }
}
BillRemote.java
package com.mycompany.onlineshop;
import java.util.Vector;
import javax.ejb.Remote;
* @author shankar
*/
@Remote
public interface BillRemote {
  public Vector<Item> addItem(String name, String price);
}
```

### Item.java

package com.mycompany.onlineshop;

```
class Item {
  String name;
  int cost;
  int quant;
  public Item(){
  }
  public Item(String name, int cost, int quant){
     this.name = name;
     this.cost = cost;
     this.quant = quant;
  }
  public String getName() {
     return name;
  }
  public void setName(String name) {
     this.name = name;
  }
  public int getCost() {
     return cost;
  }
  public void setCost(int cost) {
     this.cost = cost;
  }
  public int getQuant() {
     return quant;
  }
  public void setQuant(int quant) {
     this.quant = quant;
  }
}
```

```
checkout.java
package com.mycompany.onlineshop;
import javax.ejb.Stateful;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
import java.util.Vector;
public class checkout extends HttpServlet {
  Bill obj = new Bill();
  public void listItems(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    PrintWriter out = response.getWriter();
    String[] temp = request.getParameter("hide").split(",");
    String price = temp[0];
    String name = temp[1];
    Vector<Item> cart = obj.addItem(name, price);
    int bill = 0;
    out.println(""
         + " Name QuantityCost");
    for (Item item : cart) {
       int total = item.getQuant() * item.getCost();
       out.println("" + item.getName() + "" + item.getQuant() + ""
           + total + "Rs.");
       bill += total;
    }
    out.println("");
    out.println("Bill = " + bill + " <br > <a href = 'payment'> <input type = 'button' value = 'Click to
pay'> </a>");
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
```

```
response.setContentType("text/html;charset=UTF-8");
     PrintWriter out = response.getWriter();
     try {
       listItems(request, response);
     } finally {
       out.close();
    }
  }
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     processRequest(request, response);
  }
homePage.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
public class homePage extends HttpServlet {
  private Connection conn;
  public Connection listItems(HttpServletRequest request, HttpServletResponse response,
Connection conn)
       throws ServletException, IOException {
     PrintWriter out = response.getWriter();
     try {
       Statement stmt = conn.createStatement();
       String sql = "SELECT * FROM store";
       ResultSet rs = stmt.executeQuery(sql);
```

```
out.println(" Item Code Item Name Item
Quantity Item Cost ");
      while (rs.next()) {
         String code = rs.getString("item code");
         String name = rs.getString("item name");
         String num = rs.getString("item num");
         String cost = rs.getString("item cost");
         out.println(" " + code + " " + name + " " + num + " " + num + "
+ cost + "Rs");
      out.println("");
    } catch (Exception e) {
      e.printStackTrace();
      System.out.println("Error in select all");
    }
    return conn;
  }
  public Connection getConnection(HttpServletResponse response) throws IOException {
    PrintWriter out = response.getWriter();
    try {
      String url = "jdbc:mysql://localhost/temp";
      String username = "root";
      String password = "";
      Class.forName("com.mysql.jdbc.Driver");
      conn = DriverManager.getConnection(url, username, password);
    } catch (Exception e) {
      e.printStackTrace();
      out.println("Error occurred while connecting to database");
    return conn;
  }
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    PrintWriter out = response.getWriter();
    try {
      getConnection(response);
      listItems(request, response, conn);
```

```
out.println("<a href = \"purchase\"> <input type = 'button' value = 'Click to
proceed'> </a>");
     } finally {
       out.close();
  }
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     processRequest(request, response);
  }
}
payment.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class payment extends HttpServlet {
  public void doGet(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException {
     res.setContentType("text/html");
     PrintWriter pw = res.getWriter();
     pw.println("Payment successful");
 }
```

```
purchase.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
public class purchase extends HttpServlet {
  private Connection conn;
  public Connection listItems(HttpServletRequest request, HttpServletResponse response,
Connection conn)
      throws ServletException, IOException {
    PrintWriter out = response.getWriter();
    try {
      Statement stmt = conn.createStatement();
      String sql = "SELECT * FROM store";
      ResultSet rs = stmt.executeQuery(sql);
      int ctr = 0:
      out.println("<form action='/onlineShop/checkout' method='get'>");
      out.println(" Item Code Item Name Item
Quantity Item Cost Buying");
      while (rs.next()) {
         String code = rs.getString("item code");
         String name = rs.getString("item_name");
         String num = rs.getString("item num");
         String cost = rs.getString("item_cost");
         String hide = cost+","+ name;
         out.println(" " + code + "" + name + "" + num + "" + num + ""
+ cost);
         out.println(" Rs<input type='submit' name = 'hide' value= " +hide
+"">");
         ctr++;
      }
      out.println("");
      out.println("<input type='hidden' name = 'counter' value = ""+ctr+"'</input></form>");
    } catch (Exception e) {
      e.printStackTrace();
```

```
System.out.println("Error in select all");
  }
  return conn;
}
public Connection getConnection(HttpServletResponse response) throws IOException {
  PrintWriter out = response.getWriter();
  try {
     String url = "jdbc:mysql://localhost/temp";
     String username = "root";
     String password = "";
     Class.forName("com.mysql.jdbc.Driver");
     conn = DriverManager.getConnection(url, username, password);
  } catch (Exception e) {
     e.printStackTrace();
     out.println("Error occurred while connecting to database");
  }
  return conn;
}
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
     throws ServletException, IOException {
  response.setContentType("text/html;charset=UTF-8");
  PrintWriter out = response.getWriter();
  try {
     getConnection(response);
     listItems(request, response, conn);
  } finally {
     out.close();
}
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
     throws ServletException, IOException {
  processRequest(request, response);
}
```

}

1 bread 7 45Rs	
2 pen 5 10Rs	

Click to proceed

Item Code	Item Name	Item Quantity	Item Cost	Buying
1	bread	7	45 Rs	45,bread
2	pen	5	10 Rs	10,pen

Name	Quantity	Cost
bread	1	45Rs.
pen	2	20Rs.

Bill = 65

Click to pay

## PROGRAM 4: Visitor Statistics

```
freq.java
package com.mycompany.visitperday;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.ejb.Stateful;
import javax.servlet.http.HttpServletResponse;
@Stateful
public class freq implements freqLocal {
  boolean visited = false;
  @Override
  public String getFreq(String day) {
    Connection conn = getConnection();
    String res = "";
    try {
       Statement stmt = conn.createStatement();
       String sql = "SELECT * FROM VISITOR FREQ";
       ResultSet rs = stmt.executeQuery(sql);
       res += " Day Visits";
       while (rs.next()) {
         String days = rs.getString("Day");
         int visits = rs.getInt("Visits");
         res += " " + days + "";
         if (days.equals(day) && visited == false) {
            visits++;
            addFreq(day, visits, conn);
            visited = true;
         }
         res += visits + "";
       }
```

```
res += "";
    } catch (Exception e) {
       e.printStackTrace();
       System.out.println("Error in select all");
     }
     return res;
  }
  @Override
  public void addFreq(String day, int visits,Connection conn) {
     Statement stmt = null;
     try {
       stmt = (Statement) conn.createStatement();
     } catch (SQLException ex) {
       Logger.getLogger(freq.class.getName()).log(Level.SEVERE, null, ex);
     }
     String query = "UPDATE VISITOR_FREQ SET Visits=""+visits+"" WHERE Day = "" + day +""
     try {
       stmt.executeUpdate(query);
     } catch (SQLException ex) {
       Logger.getLogger(freq.class.getName()).log(Level.SEVERE, null, ex);
     }
  }
  public Connection getConnection() {
     Connection conn = null;
     try {
       String url = "jdbc:mysql://localhost/temp";
       String username = "root";
       String password = "";
       Class.forName("com.mysql.jdbc.Driver");
       conn = DriverManager.getConnection(url, username, password);
     } catch (Exception e) {
       e.printStackTrace();
     return conn;
}
```

```
freqLocal.java
package com.mycompany.visitperday;
import java.sql.Connection;
import javax.ejb.Remote;
import javax.servlet.http.HttpServletResponse;
@Remote
public interface freqLocal {
  public String getFreq(String day);
  public void addFreq(String day, int visits, Connection conn );
  public Connection getConnection();
}
homePage.java
package com.mycompany.visitperday;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.util.Calendar;
* @author shankar
public class homePage extends HttpServlet {
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     response.setContentType("text/html;charset=UTF-8");
    try ( PrintWriter out = response.getWriter()) {
       String[] days = {"SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY",
"FRIDAY", "SATURDAY"};
```

```
Calendar calendar = Calendar.getInstance();
       int dayNum = calendar.get(Calendar.DAY_OF_WEEK);
       String today = days[dayNum - 1];
       out.println("Thanks for visiting the page");
       out.println("<br>Hits so far are:");
       freq obj = new freq();
       out.println(obj.getFreq(today));
    }
  }
  // <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);
  }
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     processRequest(request, response);
  }
  /**
  @Override
  public String getServletInfo() {
     return "Short description";
  }// </editor-fold>
}
```

Thanks for visiting the page Hits so far are:

Day	Visits
SUNDAY	0
MONDAY	0
TUESDAY	0
WEDNESDAY	0
THURSDAY	0
FRIDAY	3
SATURDAY	0

# PROGRAM 5 : Marks Entry

```
Enter Marks in Subject 1 : <input type="text" name="sub1"> <br>
       Enter Marks in Subject 2 : <input type="text" name="sub2"><br><br>
       Enter Marks in Subject 3 : <input type="text" name="sub3"><br><br>
       Enter Marks in Subject 4 : <input type="text" name="sub4"><br>
       <input type="submit">
     </form>
  </center>
</body>
</html>
markEntry.java
package com.mycompany.marksejb;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.ejb.Stateless;
import javax.servlet.http.HttpServletResponse;
/**
* @author shankar
*/
@Stateless
public class markEntry implements markEntryRemote{
  Connection conn;
  @Override
  public void enterMarks(String name, int[] marks) {
     conn = getConnection();
     String st = "INSERT INTO marks VALUES (" + name + ","
                   + marks[0] + "'," + marks[1] + "'," + marks[2]
                   + "'," + marks[3] +"")";
     try {
       String url = "jdbc:mysql://localhost:3306/temp";
```

```
String username = "root";
     String password = "";
     PreparedStatement pstmt = null;
     try {
       Class.forName("com.mysql.jdbc.Driver");
       conn = DriverManager.getConnection(url, username, password);
    } catch (SQLException ex) {
       System.out.println(ex.getMessage());
    } catch (ClassNotFoundException ex) {
       Logger.getLogger(markEntry.class.getName()).log(Level.SEVERE, null, ex);
    }
     try {
       pstmt = conn
            .prepareStatement(st);
     } catch (SQLException ex) {
       Logger.getLogger(markEntry.class.getName()).log(Level.SEVERE, null, ex);
    }
    try {
       int rs = pstmt.executeUpdate();
    } catch (SQLException ex) {
       Logger.getLogger(markEntry.class.getName()).log(Level.SEVERE, null, ex);
    }
     pstmt.close();
     conn.close();
  } catch (SQLException ex) {
     Logger.getLogger(markEntry.class.getName()).log(Level.SEVERE, null, ex);
  }
}
public Connection getConnection() {
  try {
     String url = "jdbc:mysql://localhost/temp";
     String username = "root";
     String password = "";
     Class.forName("com.mysql.jdbc.Driver");
```

```
conn = DriverManager.getConnection(url, username, password);
    } catch (Exception e) {
       e.printStackTrace();
    }
    return conn;
  }
}
markEntryRemote.java
package com.mycompany.marksejb;
import java.sql.Connection;
import java.sql.SQLException;
import javax.ejb.Remote;
/**
* @author shankar
*/
@Remote
public interface markEntryRemote {
  public void enterMarks(String name, int[] marks);
}
addEntry.java
package com.mycompany.marksejb;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
```

```
* @author shankar
public class addEntry extends HttpServlet {
  private Connection conn;
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException, SQLException {
     response.setContentType("text/html;charset=UTF-8");
     try ( PrintWriter out = response.getWriter()) {
       String name = request.getParameter("name");
       int marks[] = new int[4];
       for (int i = 1; i \le 4; i++) {
          marks[i - 1] = Integer.parseInt(request.getParameter("sub" + i));
       }
       markEntry obj = new markEntry();
       obj.enterMarks(name, marks);
       out.println("Insertion successful");
       out.println("<meta http-equiv=\"Refresh\" content=\"2.5;
url='/marksEJB-1.0-SNAPSHOT/'\" />");
       conn.close();
     }
  }
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    try {
       processRequest(request, response);
     } catch (SQLException ex) {
       Logger.getLogger(addEntry.class.getName()).log(Level.SEVERE, null, ex);
    }
  }
}
```

## Student marks

Enter Name : blingus
Enter Marks in Subject 1 : 77
Enter Marks in Subject 2 : 88
Enter Marks in Subject 3 : 99
Enter Marks in Subject 4 : 77
Submit

## PROGRAM 6: Hit Count

#### Code:

```
index.xhtml
<html lang="en"
    xmlns="http://www.w3.org/1999/xhtml"
    xmlns:ui="http://xmlns.jcp.org/jsf/facelets"
    xmlns:h="http://xmlns.jcp.org/jsf/html">
        This page has been accessed #{count.hitCount} time(s).
</html>
```

### Count.java

package com.mycompany.counter;

```
import java.io.Serializable;
import javax.ejb.EJB;
import javax.enterprise.context.ConversationScoped;
import javax.inject.Named;
```

```
@Named
@ConversationScoped
public class Count implements Serializable {
  @EJB
  private CounterBean counterBean;
  private int hitCount;
  public Count() {
     this.hitCount = 0;
  }
  public int getHitCount() {
     hitCount = counterBean.getHits();
     return hitCount;
  }
  public void setHitCount(int newHits) {
     this.hitCount = newHits;
  }
}
CounterBean.java
package com.mycompany.counter;
import javax.ejb.Singleton;
/**
* CounterBean is a simple singleton session bean that records the number
* of hits to a web page.
*/
@Singleton
public class CounterBean {
  private int hits = 1;
  // Increment and return the number of hits
  public int getHits() {
     return hits++;
}
```

This page has been accessed 10 time(s).