

# Mini JEE Applications

## 1. Develop a JEE application to generate Electricity bill.

**Step-I :** Create a jsp by the name consumer.jsp

Keep fields to accept Consumer No. , Consumer Name, Previous Month Reading, Current Meter Reading & type of connection.

**Step-II:** Create a Servlet ConsumerServlet.

Retrieve all the consumer.jsp fields data .

Call the BillLogic Class & pass above data from Servlet

Accept return value of calculated amount from BillLogic Class

Redirect Calculated Bill Amount billdisplay.jsp

**Step-III :** Create a class with the following members:

Consumer no., consumer name, previous month reading,

current month reading, type of EB connection (i.e domestic or commercial).

Compute the bill amount using the following tariff.

Write Methods for below calculations & return calculated Bill Amount to Servlet:

If the type of the EB connection is domestic, calculate the amount to be paid as follows:

- First 100 units - Rs. 1 per unit
- 101-200 units - Rs. 2.50 per unit
- 201 -500 units - Rs. 4 per unit
- If > 501 units - Rs. 6 per unit

If the type of the EB connection is commercial, calculate the amount to be paid as follows:

- First 100 units - Rs. 2 per unit

- 101-200 units - Rs. 4.50 per unit
- 201 -500 units - Rs. 6 per unit
- If> 501 units - Rs. 7 per unit

**Step-IV :** Create billdisplay.jsp

Display the Bill Amount with Consumer No. , Consumer Name

## 2. Develop a JEE application to create Currency Converter.

**Step 1:** Create a JSP by the name currencyconverter.jsp

Keep Text Box field to accept input currency value with its corresponding Unit in a dropdown field.

Keep a Submit button by the name Convert

On clicking this submit button call Converter Servlet

**Step 2 :** Create a Servlet by the name ConverterServlet

Retrieve input from currencyconverter.jsp

Pass this value to a Converter.java class

Accept return value from the Converter.java class

Redirect this converted amount to displayCurrency.jsp

**Step3:** Create displayCurrency.jsp

Display original Currency with its unit & converted currency with its corresponding unit

**Step4: Create a Converter.java class**

Create a method to accept input from servlet & return converted amount to the servlet

## 3. Create a Customer Information Application

**Step1 :** Create customerform.jsp

Keep fields like Name,Address , Mobile No, Email ID

Create customerservlet.java

Create Customer.java class

Write method to Save Customer data in customer table

Step-2: Create customersearch.jsp

Keep 1 text box Customer Name & a submit button "Search"

On Clicking Search Button it should call CustomerSearch Servlet

Step-3: Create CustomerSearch Servlet

Retrieve Customer Name from customersearch.jsp

Pass this to Customer.java class

Write method to Search Customer data from customer table

Return resultset to CustomerSearch Servlet

Redirect this resultset to customerdisplay.jsp

Step-4 Create customerdisplay.jsp

Retrieve resultset passed from CustomerSearch Servlet

Loop this resultset & display in HTML Table Rows & Cols .