# Madras Christian College (Autonomous)

**Department of Computer Science**

**Advanced Java Programming Lab**

**Problem Sheet I –Servlet and JSP- Batch 2018**

**Servlet**

1. Create a HTML form to get the following Customer details.

Name Text(30)

Age Text(3)

Gender RadioButton

Address Text Area(3,30)

Phone Text(10)

Products Dropdown list

Description (about the products)

Write the Servlet code to service a Post request. On submitting the button the details should be inserted into the MYSQL database. Validate the form using JavaScript.

**Servlet with Cookies and Session Tracking**

1. Create an authentication form, which validates the login id and password keyed in by the user and returns an appropriate page (Congratulating the user /denying access) generated by a servlet.

* Implement cookies so that when the user visits the web page next time, he/she could get a welcome message like “Welcome xxxx”. Retrieve the name from the stored cookie.
* Implement session tracking to get the current date and the last visit date. Next time when the user visits page, he or she could get a message like "Your last visit was on June 29, 2019”.

**JSP**

1. Create a JSP web application for an Online Blood Banking to add the following Blood Donor information to a BLOOD\_DONOR MySql database.

Donor\_Id TextBox

Donor\_Name TextBox

Age TextBox

Sex RadioButton

Blood Group Combo Box

Phone TextBox

Submit button & Reset button

Provide the facility to insert, edit, delete and view the details. Use JavaScript Validation to

ensure that the controls are not left empty and provide the appropriate validation.

1. Implement the following Electricity Billing System using JSP program to Add the following Consumer information to an Electricity database:

Consumer Id TextBox (Numeric)

Consumer Name TextBox

Sex RadioButton

Address Text Area

Phone Text Box

Category Drop Down List (Domestic, Commercial & Industrial)

Reading TextBox

Amount TextBox

Reset & Submit button

* Create a form with the above details.
* Use JavaScript Validation to ensure that the controls are not left empty and also the Consumer Id, Phone No. should be numeric of 5 & 10 characters.
* On pressing Submit the details entered in the form should be added to the database along with the calculated amount.
* Slab Rate

|  |  |  |  |
| --- | --- | --- | --- |
| Units | Type | | |
| D | I | C |
| 0 to 100 | 1.00 | 2.00 | 3.00 |
| 100 to 200 | 1.25 | 2.50 | 3.75 |
| 200 and above | 2.00 | 4.00 | 6.00 |

Amount = (previous reading- current reading) \* rate per unit

* On pressing Reset the details entered in the form should be cleared.
* Create other forms to Edit, Delete and view the details specified above based on the Consumer Id.