

## Unit-IV

4. (a) Develop a JSP application to accept user's first name and then welcome the user by name? 8
- (b) How application data can be shared in JSP? Explain. 8

Or

4. (a) Explain the use of JSTL-EL in JSP 8
- (b) Explain the error handling technique in JSP? 8

## Unit - V

5. (a) Explain how JDBC performs mapping between JAVA and SQL data types? 8
- (b) Write the steps in JSP for accessing the database (created using MySQL) and displaying all the records from that database? 8

Or

5. (a) What is struts? Explain its MVC architecture? 8
- (b) Write short note on javax.sql\*package? 8

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