

Nirma University
Computer Science & Engineering Department, IT-NU
2CSDE60 – Advanced Java

List of Practical

| Sr. No. | Name of Practical | Hours | CLO |
|----------------|---|--------------|------------|
| 1 | Create a basic swing application of calculator which incorporates frame and event handling | 2 | CL01,2 |
| 2 | Exemplify Swing Concepts of layout designing using following applications: <ul style="list-style-type: none"> a. Create a swing program that displays a window containing four buttons and a label. The first button says “Click here”, and the other three buttons say “Not here”. If one of the “Not here” buttons is clicked, the label displays the message “Wrong, try again”. If the “click here” button is clicked, then the label displays “Good job. Do it again”. Also, each time the “Click here” button is clicked, a new button is randomly chosen and given the text “Click here” and the other three buttons are given the text “Not here”. The application quits when user clicks 10 times “Click here” button. b. Create a swing application for stopwatch. That contains one push button and one label. Push button is used to start and stop the stopwatch. The label displays the elapsed time. | 4 | CL01,2 |
| 3 | Create a Swing Application which includes following necessary functionalities: <ul style="list-style-type: none"> - Menu Driven Home Page which allows to redirect to Insert Data Frame, Update Data Frame, View Data Frame and Delete Data Frame - Use Appropriate Swing Components like textfields, buttons, table, list, dialog box and others with event handling - Use database for data storage | 4 | CL01,2 |
| 4 | Create a java application that demonstrates the communication with JDBC using all different types of Statements like Simple, Prepared and Callable Statement. | 4 | CL01,2 |
| 5 | Create a web application using servlet that allows user to login with correct credentials, enter the details that gets stored in database, view the details, request user to login again if credentials are wrong. | 4 | CL01,2 |
| 6 | Create a Servlet application that uses Servlet Init, Servlet Config and Session Tracking mechanism for a Student Portal. The home page gets refreshed every 5 seconds and shows visitor count [JSP can be used]. | 2 | CL01,2 |
| 7 | Design application that interacts with a JSP Page using Java Reusable Component – Java Beans for Student Information Management. | 2 | CL01,2 |

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| 8 | Design a Spring application for Employee Data Handling. | 2 | CL03,4 |
| 9 | Write an annotation based Spring Application for Employee Data Management and use Interface based concept for multi-level hierarchy. | 4 | CL03,4 |
| 10 | Study and implement Hibernate application. | 2 | CL03,4 |
| | Total | 30 | |