Lab Report 7 on JAVA Swing, Applet and JDBC

1. **Cover page (P)**
2. Differentiate between Swing and AWT. (H)
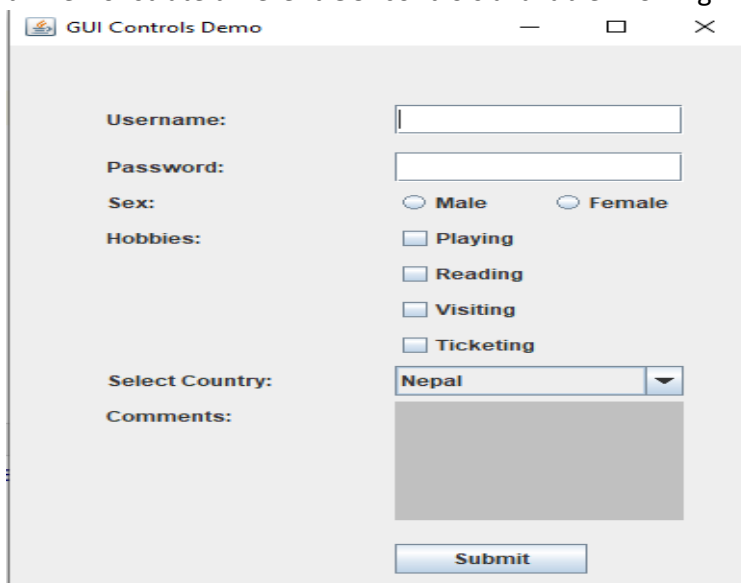3. Discuss about layout manager and its types. (H)
4. Discuss about Event and Event handling by making a list of different event classes and interfaces. (H)
5. Discuss about JDBC. (H)
6. Differentiate between Java Applet and Application. (H)
7. **Write a JAVA program to: (P/H)**
   a. Demonstrate different layout managers.
   b. Create a simple calculator using SWING and event.
   c. Create a simple interest Calculator Using Swing and event.
   d. Demonstrate different GUI controls available in Swing.

   e. Create a MenuBar with Some Menus and Menuitems using Swing and event.
   f. Create GUI program using components to find factorial and cube of number. Use TextField for giving input and Label for output. The program should display factorial if user press mouse on result button and cube if user release mouse from result button. (Note: Use MouseAdapter Class)
   g. Illustrate simple example to demonstrate Java Applet.
   h. Demonstrate CRUD operation on Console that connect to database **Company** and insert 5 employee record (Eid, Ename, Salary, Department) in **Employee** table and display the Employee record whose Department is "Sales" as well as update and delete the record based on Eid.
   i. Create book entry form (id, name, author, publication, price) and insert, update, Delete and View records in/from database using JDBC and Swing.
   j. Create a simple login form and enter the username and password in text fields and then click on the Login button, if login success then open a new Welcome form otherwise display incorrect username and password using Swing and JDBC.
8. **Conclusion (H)**