PRACTICAL 8

AIM :- CREATE JAVA & MONGO APPLICATION.

Code :-

```
package practical.pkg8;
package pds_java.mongo;
import com.mongodb.BasicDBObject; import com.mongodb.DB;
import com.mongodb.DBCollection; import com.mongodb.DBCursor;
import com.mongodb.MongoClient;
import javax.swing.table.DefaultTableModel;


/**
 *
 * @author HP
 */
public class P8 extends javax.swing.JFrame {
    public MongoClient mongo; public DB db;
public DBCollection table; DefaultTableModel tb;

    /**
     * Creates new form P8
     */
    public P8() {
        initComponents();
    }

    public void con_db() {
mongo = new MongoClient("localhost", 27017); db = (DB) mongo.getDB("xyz");
tb = (DefaultTableModel) jTable1.getModel(); table = db.getCollection("pdsjava"); tb.setRowCount(0);
DBCursor cr = table.find(); while (cr.hasNext()) {
BasicDBObject obj = (BasicDBObject) cr.next();


Object[] ROW = {obj.getString("eno"), obj.getString("fname"), obj.getString("lname"),
obj.getString("branch")};

tb.addRow(ROW);
}
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
      // TODO add your handling code here:
```

```
      BasicDBObject document = new BasicDBObject(); document.put("fname", fname.getText());
document.put("lname", lname.getText()); document.put("branch", branch.getText());
document.put("eno", eno.getText());

table.insert(document); fname.setText("");
lname.setText("");
branch.setText("");
eno.setText("");
System.out.println("Successful");
   }

   private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
      // TODO add your handling code here:
      con_db();
   }

   private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
      // TODO add your handling code here:
      eno.setEditable(false);
BasicDBObject search = new BasicDBObject(); String eno1 = eno.getText().toString(); search.put("eno",
eno1);

BasicDBObject newDcoument = new BasicDBObject(); newDcoument.put("eno",
eno.getText().toString()); newDcoument.put("fname", fname.getText().toString());
newDcoument.put("lname", lname.getText().toString()); newDcoument.put("branch",
branch.getText().toString());

BasicDBObject updateObj = new BasicDBObject(); updateObj.put("$set", newDcoument);
table.update(search, newDcoument);

fname.setText("");
lname.setText("");
branch.setText("");
eno.setText("");

   }

   private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
      // TODO add your handling code here:
      BasicDBObject search = new BasicDBObject(); String eno1 = eno.getText().toString();


search.put("eno", eno1); table.remove(search);

fname.setText("");
lname.setText("");
branch.setText("");
eno.setText("");

   }
```

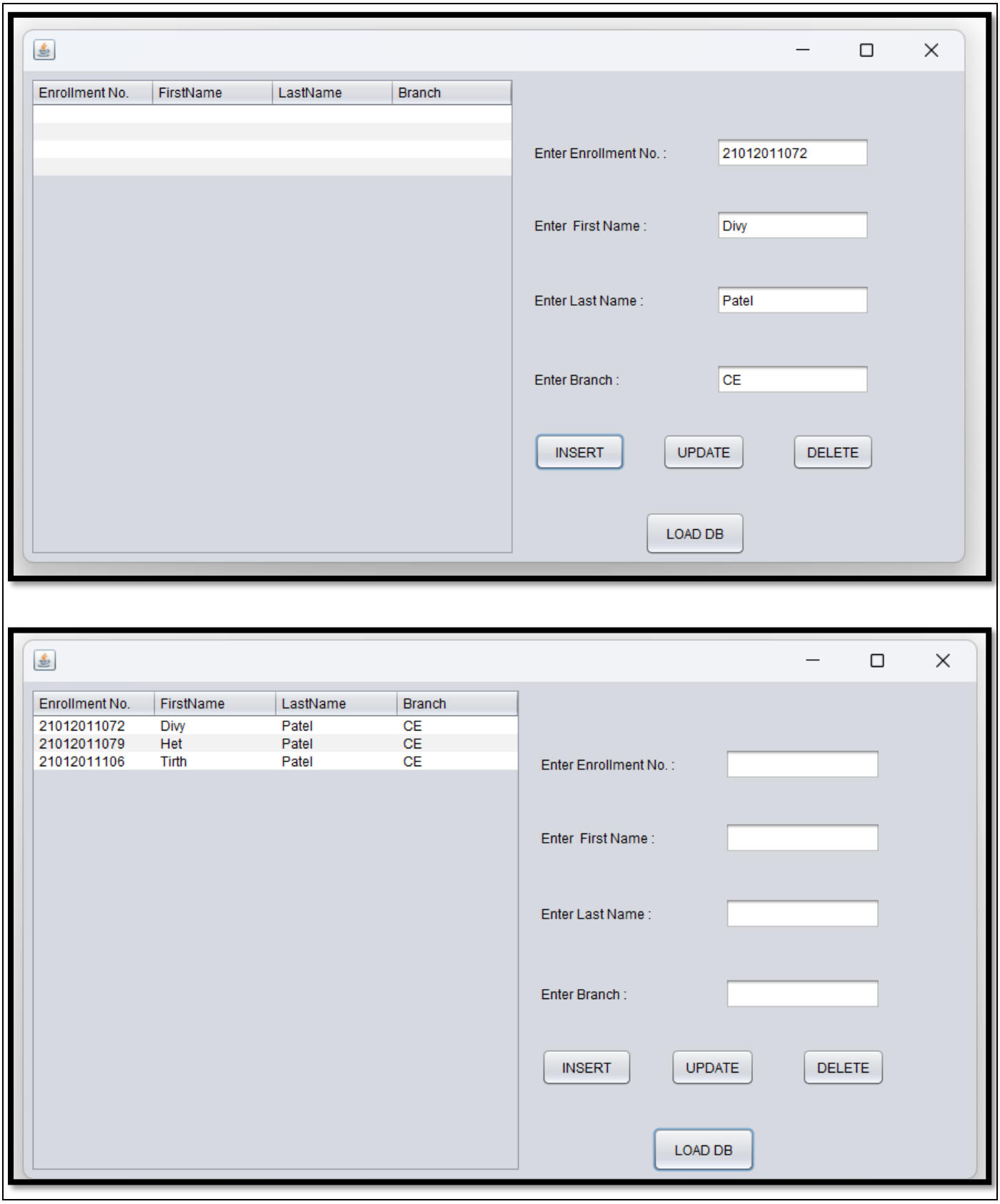
```
    private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        int pindex = jTable1.getSelectedRow();
eno.setText(tb.getValueAt(pindex, 0).toString()); fname.setText(tb.getValueAt(pindex, 1).toString());
lname.setText(tb.getValueAt(pindex, 2).toString()); branch.setText(tb.getValueAt(pindex, 3).toString());

    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(P8.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(P8.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(P8.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(P8.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new P8().setVisible(true);
            }
        });
    }
```

Output :-


Enrollment No.
FirstName
LastName
Branch
Enter Enrollment No. :
21012011072
Enter First Name :
Divy
Enter Last Name :
Patel
Enter Branch :
CE
INSERT
UPDATE
DELETE
LOAD DB
Enrollment No.
FirstName
LastName
Branch
21012011072
Divy
Patel
CE
21012011079
Het
Patel
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Tirth
Patel
CE
Enter Enrollment No. :
Enter First Name :
Enter Last Name :
Enter Branch :
INSERT
UPDATE
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LOAD DB