Day 4 Classwork:

Program:

```java
package stv.stv;
import java.sql.*;

/**
 * Hello world!
 *
 */
import java.sql.*;

public class App
{
    public static void main( String[] args )
    {
        addProduct(1, "hello", 3);
        addProduct(10, "stv", 30);
        addProduct(11, "abcd", 31);
        addProduct(9, "asd", 29);
        delProduct(1);
        delProduct(9);
        display();
        changeName(10, "scale");
        display();
        changePrice(10, 20);
        display();
    }

    public static void addProduct(int id, String name, int price) {

        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root", "");
            try {

            java.sql.Statement stmt=con.createStatement();
            int a=stmt.executeUpdate("insert into products values('"+id+"','"+name+"','"+price+"');");

                } catch (Exception e) {
                    // TODO: handle exception
                }
            finally {
                con.close();
            }
        } catch (Exception e) {
            // TODO: handle exception
        }
```

```java
        }

    public static void  delProduct(int id) {
        try {
                Connection con = null;
                Class.forName("com.mysql.cj.jdbc.Driver");
                con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root", "");
                try {

                java.sql.Statement stmt=con.createStatement();
                int a=stmt.executeUpdate("delete from products where id='"+id+"';");
                if(a==0)
                        System.out.print("No rows deleted");

                        } catch (Exception e) {
                                // TODO: handle exception
                        }
                finally {
                                con.close();
                        }
                } catch (Exception e) {
                        // TODO: handle exception
                }

        }

    public static void changeName(int id, String newName) {
        try {
                Connection con = null;
                Class.forName("com.mysql.cj.jdbc.Driver");
                con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root", "");
                try {

                java.sql.Statement stmt=con.createStatement();
                int a=stmt.executeUpdate("update products set name='"+newName+"' where id='"+id+"';");
                if(a==0)
                        System.out.print("No product is updated");
                else {
                                        System.out.print("The product name is updated");
                        }

                        } catch (Exception e) {
                                // TODO: handle exception
                        }
                finally {
                                con.close();
                        }
```

```java
			} catch (Exception e) {
				// TODO: handle exception
			}

		}

	public static void changePrice(int id, int newPrice) {
		try {
			Connection con = null;
			Class.forName("com.mysql.cj.jdbc.Driver");
			con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root", "");
			try {

				java.sql.Statement stmt=con.createStatement();
				int a=stmt.executeUpdate("update products set price='"+newPrice+"' where id='"+id+"';");
				if(a==0)
					System.out.print("No product is updated");
				else {

						System.out.print("The product price is updated");
					}

				} catch (Exception e) {
					// TODO: handle exception
				}
			finally {
					con.close();
				}
			} catch (Exception e) {
				// TODO: handle exception
			}
		}

	public static void display()
	{
		try {
			Connection con = null;
			Class.forName("com.mysql.cj.jdbc.Driver");
			con =
DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&useJDBCCompliantTimezoneShift=true
&useLegacyDatetimeCode=false&serverTimezone=UTC","root", "");
			try {

				java.sql.Statement stmt=con.createStatement();

				ResultSet rs=stmt.executeQuery("select * from products");
				while(rs.next())
				{
				System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3));
				}
					} catch (Exception e) {
						// TODO: handle exception
```

```
                    }
            finally {
                            con.close();
                    }
            } catch (Exception e) {
                    // TODO: handle exception

            }
      }


}
```

Output: