

Assignment 03

Aim: To display the functionalities of the mini project.

1) Welcome Page

Code:

```
package login1;
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.JLabel;
import java.awt.Font;
import java.awt.Color;
import javax.swing.SwingConstants;
import javax.swing.JScrollPane;
public class wel extends JFrame {

    private JPanel contentPane;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new
Runnable() {
            public void run() {
                try {
                    wel
frame = new wel();
                    frame.setVisible(true);
                } catch
(Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    /**
     * Create the frame.
     */
    public wel() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

setBounds(100, 100, 704,
498);
        setTitle("Welcome Page");
        contentPane = new JPanel();
        contentPane.setBackground(new
Color(188, 143, 143));
        contentPane.setBorder(new
EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);

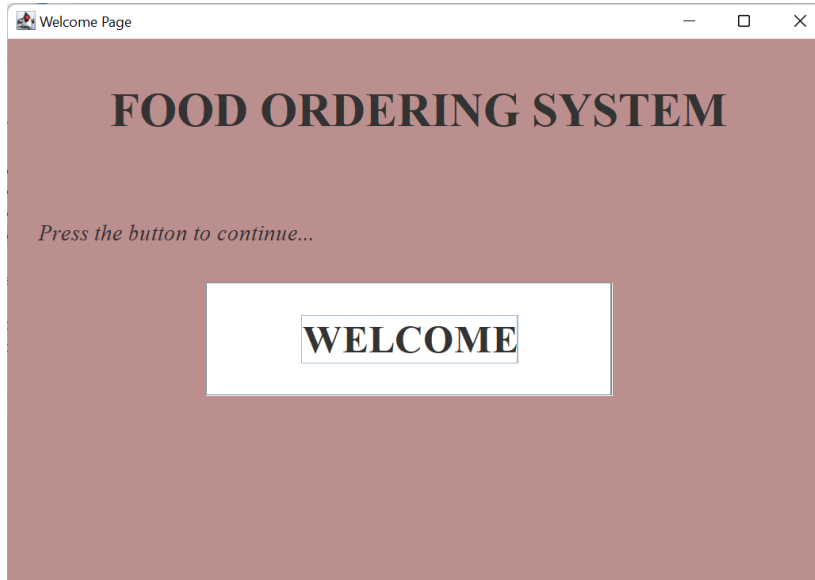
        JLabel lblNewLabel = new
JLabel("FOOD ORDERING SYSTEM");
        lblNewLabel.setBackground(new
Color(119, 136, 153));
        lblNewLabel.setVerticalAlignment(Swi
ngConstants.TOP);
        lblNewLabel.setFont(new
Font("Times New Roman", Font.BOLD, 40));
        lblNewLabel.setBounds(86,
37, 594, 40);
        contentPane.add(lblNewLabel);
        JLabel lblNewLabel_1 = new
JLabel("Press the button to continue...");
        lblNewLabel_1.setFont(new
Font("Times New Roman", Font.ITALIC, 19));
        lblNewLabel_1.setBounds(26,
152, 284, 22);
        contentPane.add(lblNewLabel_1);
        JButton
btnNewButton = new JButton("WELCOME");
        btnNewButton.setBounds(167, 205,
342, 95);
        contentPane.add(btnNewButton);
        btnNewButton.setBackground(new
Color(255, 255, 255));
        btnNewButton.setFont(new
Font("Times New Roman", Font.BOLD, 33));

        btnNewButton.addActionListener(ne
w ActionListener() {
```

```

        public void
        actionPerformed(ActionEvent e) {
            login l
        }
    }
    = new login();
    l.show();
    dispose();
}

```



2) LogIn Page:

Code:

```

package login1;
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import javax.swing.SwingConstants;
import javax.swing.JTextField;
import javax.swing.JPasswordField;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.awt.Color;
public class login extends JFrame {
    private static final long
    serialVersionUID = 1L;
    private JPanel contentPane;
    private JTextField textField;
    private JPasswordField passwordField;
    public static void main(String[] args) {
        EventQueue.invokeLater(new
        Runnable() {
            public void run() {
                try {
                    login
                    frame = new login();
                    frame.setVisible(true);
                } catch
                (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    public login() {
        setDefaultCloseOperation(JFrame.EXIT_
        ON_CLOSE);
        setBounds(100, 100, 605,
        467);
        setTitle("LogIn Page");
        contentPane = new JPanel();
    }
}

```

```

        contentPane.setBackground(new
Color(188, 143, 143));
        contentPane.setBorder(new
EmptyBorder(5, 5, 5, 5));

        setContentPane(contentPane);
        contentPane.setLayout(null);
        JLabel lblNewLabel = new
JLabel("LOGIN PAGE");
        lblNewLabel.setFont(new
Font("Times New Roman", Font.BOLD, 37));
        lblNewLabel.setBounds(139,
33, 388, 60);

        contentPane.add(lblNewLabel);
        JLabel lblUsername = new
JLabel("USERNAME");
        lblUsername.setFont(new
Font("Times New Roman", Font.ITALIC, 24));
        lblUsername.setBounds(22,
139, 171, 37);

        contentPane.add(lblUsername);
        JLabel lblNewLabel_1_1 =
new JLabel("PASSWORD");

        lblNewLabel_1_1.setFont(new
Font("Times New Roman", Font.ITALIC, 24));

        lblNewLabel_1_1.setBounds(22, 223,
171, 22);

        contentPane.add(lblNewLabel_1_1);
        textField = new JTextField();
        textField.setBounds(203, 149,
211, 20);

        contentPane.add(textField);
        textField.setColumns(10);
        passwordField = new
JPasswordField();

        passwordField.setEchoChar('*');

        passwordField.setBounds(203, 226,
211, 20);

        contentPane.add(passwordField);
        final JButton log = new
JButton("LOGIN");

```

```

        log.addActionListener(new
ActionListener() {
            public void
actionPerformed(ActionEvent e) {
                String uname
= textField.getText();
                String pwrld =
passwordField.getText();

                if(
uname.equals("admin")&&
pwrld.equals("yo")) {
                    f1 f =
new f1();

                    f.show();

                    dispose();
                }
                else {

                    JOptionPane.showMessageDialog(log,
"Invalid Entry");
                }
            }
        });
        log.setFont(new Font("Times
New Roman", Font.BOLD, 27));
        log.setBounds(54, 329, 174,
52);

        contentPane.add(log);
        JButton btnNewButton_1 =
new JButton("CANCEL");

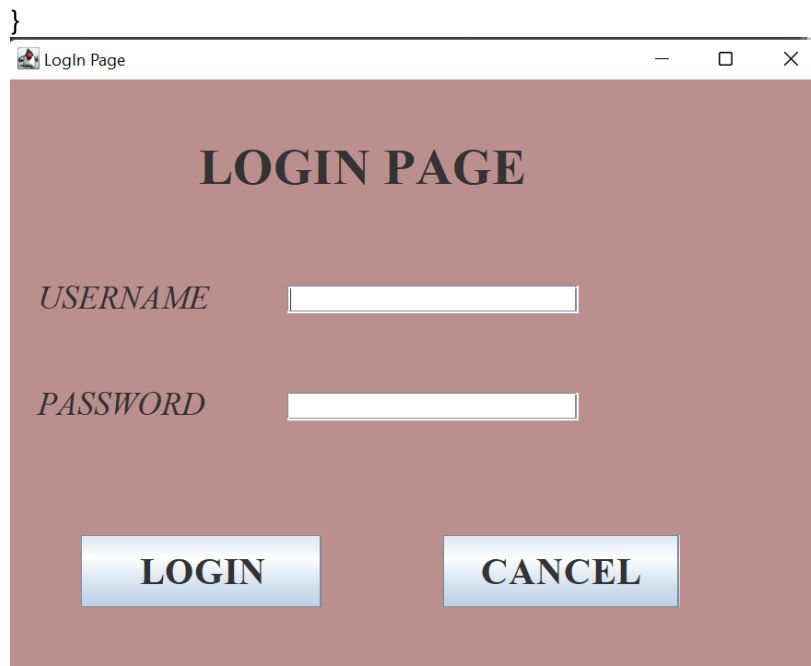
        btnNewButton_1.addActionListener(n
ew ActionListener() {
            public void
actionPerformed(ActionEvent e) {
                dispose();
            }
        });

        btnNewButton_1.setFont(new
Font("Times New Roman", Font.BOLD, 27));

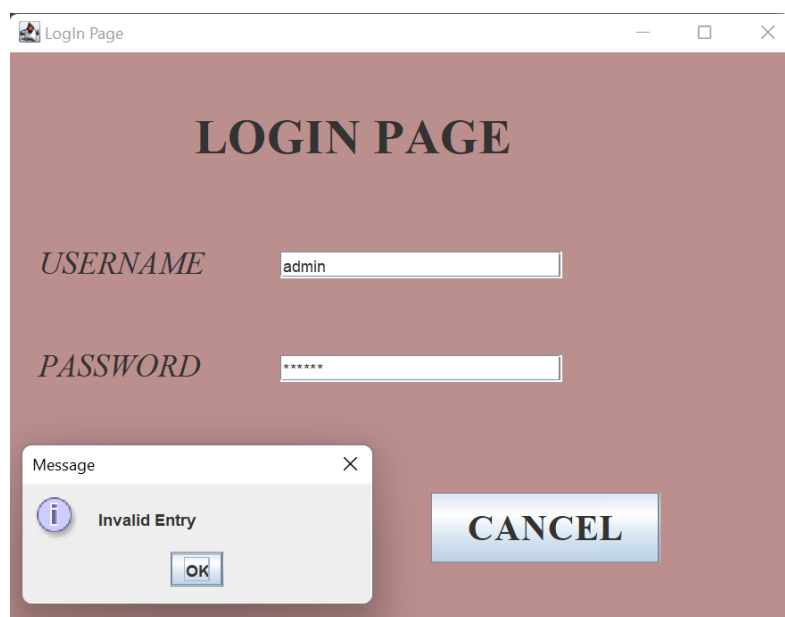
        btnNewButton_1.setBounds(316, 329,
171, 52);

        contentPane.add(btnNewButton_1);
    }

```



On entering wrong details:



3) Menu Page

Code:

```
package login1;
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JLabel;
import java.awt.Font;
import java.awt.Color;
```

```
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.awt.Color;
public class f1 extends JFrame {
    private JPanel contentPane;
    public static void main(String[] args) {
```

```

       .EventQueue.invokeLater(new
Runnable() {
            public void run() {
                try {
                    f1
frame = new f1();

                    frame.setVisible(true);
                } catch
(Exception e) {
                    e.printStackTrace();
                }
            }
        });
        public f1() {

            setDefaultCloseOperation(JFrame.EXIT
ON_CLOSE);
            setBounds(100, 100, 633,
493);
            setTitle("Menu Page");
            contentPane = new JPanel();

            contentPane.setBackground(new
Color(188, 143, 143));
            contentPane.setBorder(new
EmptyBorder(5, 5, 5, 5));

            setContentPane(contentPane);
            contentPane.setLayout(null);
            JLabel lblNewLabel = new
JLabel("Please choose an operation:");
            lblNewLabel.setFont(new
Font("Times New Roman", Font.ITALIC, 26));
            lblNewLabel.setBounds(10,
81, 411, 36);

            contentPane.add(lblNewLabel);
            JButton btnNewButton = new
JButton("BUY ITEMS");

            btnNewButton.addActionListener(new
ActionListener() {
                public void
actionPerformed(ActionEvent e) {
                    f3 r = new
f3();

                    r.show();
                }
            });

```

```

        });
        btnNewButton.setFont(new
Font("Times New Roman", Font.BOLD, 25));
        btnNewButton.setBounds(61,
172, 197, 64);

        contentPane.add(btnNewButton);
        JButton btnAboutUs = new
JButton("ABOUT US");

        btnAboutUs.addActionListener(new
ActionListener() {
            public void
actionPerformed(ActionEvent e) {
                au a = new
au();

                a.show();
            }
        });
        btnAboutUs.setFont(new
Font("Times New Roman", Font.BOLD, 25));
        btnAboutUs.setBounds(61,
308, 197, 64);

        contentPane.add(btnAboutUs);
        JButton btnNewButton_1_1 =
new JButton("STORE-ROOM");

        btnNewButton_1_1.addActionListener(new
ActionListener() {
            @SuppressWarnings("deprecation")
            public void
actionPerformed(ActionEvent e) {
                f2 i = new
f2();

                i.show();
            }
        });

        btnNewButton_1_1.setFont(new
Font("Times New Roman", Font.BOLD, 22));

        btnNewButton_1_1.setBounds(367,
172, 191, 64);

        contentPane.add(btnNewButton_1_1)
;

```

```

        JButton btnNewButton_1_2 =
new JButton("EXIT");

        btnNewButton_1_2.addActionListener(
new ActionListener() {
            public void
actionPerformed(ActionEvent e) {
                dispose();
            }
        });

        btnNewButton_1_2.setFont(new
Font("Times New Roman", Font.BOLD, 25));

        btnNewButton_1_2.setBounds(367,
308, 191, 64);
    }

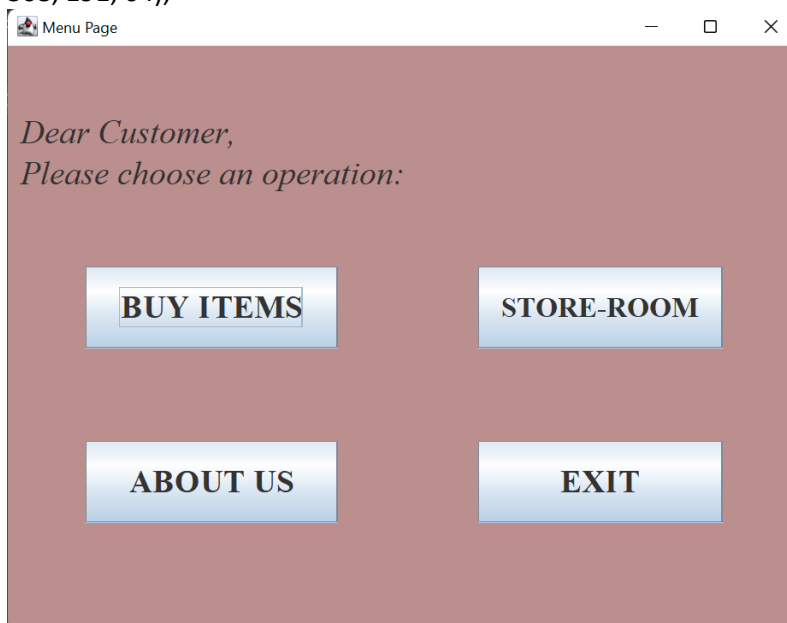
    contentPane.add(btnNewButton_1_2)
;

    JLabel lblDearCostumer = new
JLabel("Dear Customer,");
    lblDearCostumer.setFont(new
Font("Times New Roman", Font.ITALIC, 26));

    lblDearCostumer.setBounds(10, 49,
411, 36);

    contentPane.add(lblDearCostumer);
}
}

```



4) On Pressing About Us

Code:

```

package login1;
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JLabel;
import java.awt.Font;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.awt.Color;
public class au extends JFrame {

    private JPanel contentPane;
    public static void main(String[] args) {
        EventQueue.invokeLater(new
Runnable() {
            public void run() {
                try {
                    au
frame = new au();

                    frame.setVisible(true);
                } catch
(Exception e) {

```

```

        e.printStackTrace();
    }
}

});

}

public au() {

    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 784, 487);

    setTitle("About Us Page");
    contentPane = new JPanel();

    contentPane.setBackground(new Color(188, 143, 143));
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));

    setContentPane(contentPane);
    contentPane.setLayout(null);
    JLabel lblNewLabel = new JLabel("About Us - ");
    lblNewLabel.setBounds(5, 5, 760, 38);

    lblNewLabel.setFont(new Font("Times New Roman", Font.BOLD | Font.ITALIC, 32));

    contentPane.add(lblNewLabel);
    JButton btnNewButton = new JButton("EXIT");
    btnNewButton.setBounds(5, 408, 760, 37);

    btnNewButton.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            dispose();
        }
    });
    btnNewButton.setFont(new Font("Times New Roman", Font.BOLD | Font.ITALIC, 24));

    contentPane.add(btnNewButton);
    JLabel lblNewLabel_1 = new JLabel("Greetings,");

```

```

        lblNewLabel_1.setFont(new Font("Times New Roman", Font.BOLD | Font.ITALIC, 26));
        lblNewLabel_1.setBounds(66, 74, 547, 38);

        contentPane.add(lblNewLabel_1);
        JLabel
        lblNewLabel_1_1 = new JLabel("This mini-project is submitted by Mansi Mishra and Manohar alias Shantaksh Kamat");

        lblNewLabel_1_1.setFont(new Font("Times New Roman", Font.BOLD | Font.ITALIC, 19));

        lblNewLabel_1_1.setBounds(66, 153, 699, 52);

        contentPane.add(lblNewLabel_1_1);
        JLabel
        lblNewLabel_1_2 = new JLabel("Our topic is \"FOOD ORDERING SYSTEM\"");

        lblNewLabel_1_2.setFont(new Font("Times New Roman", Font.BOLD | Font.ITALIC, 26));

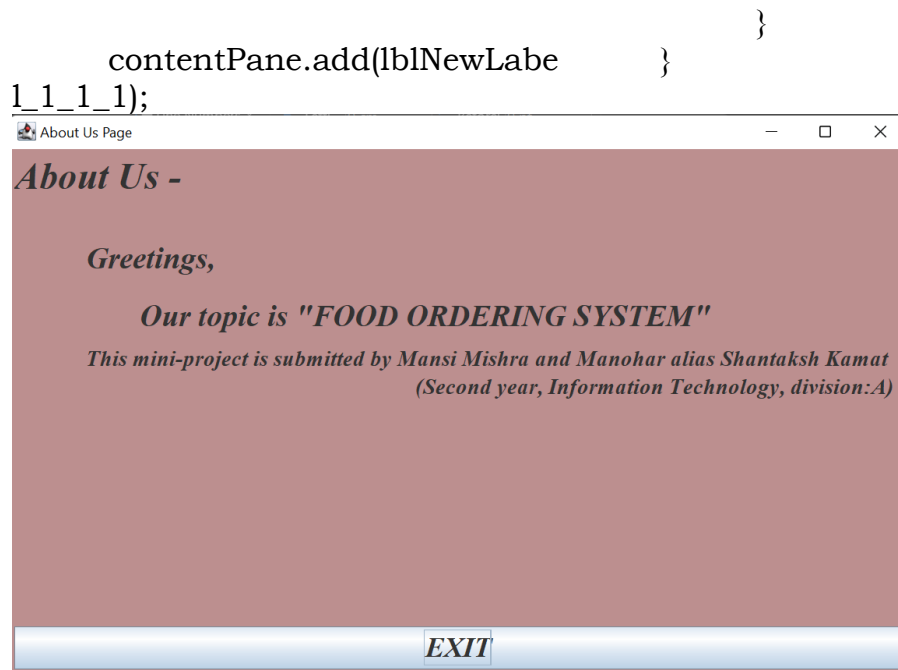
        lblNewLabel_1_2.setBounds(112, 123, 547, 38);

        contentPane.add(lblNewLabel_1_2);
        JLabel
        lblNewLabel_1_1_1 = new JLabel("(Second year, Information Technology, division:A)");

        lblNewLabel_1_1_1.setFont(new Font("Times New Roman", Font.BOLD | Font.ITALIC, 19));

        lblNewLabel_1_1_1.setBounds(348, 177, 699, 52);

```



5)On pressing- Store Room

Code:

```

package login1;
import java.awt.BorderLayout;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.table.DefaultTableModel;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import javax.swing.AbstractButton;
import javax.swing.JButton;
import javax.swing.JTable;
import javax.swing.JScrollPane;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.sql.*;

import javax.swing.JTextField;
import java.awt.Color;

public class f2 extends JFrame {
    private JPanel contentPane;
    private JTable table;
    private JTable tblModel;
    private JTextField textField;
    private JTextField textField_1;
    private JTextField textField_2;
    public static void main(String[] args) {
        EventQueue.invokeLater(new
        Runnable() {
            public void run() {
                try {
                    f2
                    frame = new f2();
                    frame.setVisible(true);
                    frame.setTitle("Stores");
                } catch
                (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    public f2() {
        setDefaultCloseOperation(JFrame.EXIT
        ON_CLOSE);
        setTitle("Store-Room");
        setBounds(100, 100, 734,
        502);
        contentPane = new JPanel();

```



```

        contentPane.setBackground(new
Color(188, 143, 143));
        contentPane.setBorder(new
EmptyBorder(5, 5, 5, 5));

        setContentPane(contentPane);
        contentPane.setLayout(null);
        JLabel lblNewLabel = new
JLabel("Items Available");
        lblNewLabel.setFont(new
Font("Times New Roman", Font.BOLD, 40));
        lblNewLabel.setBounds(17,
31, 515, 55);

        contentPane.add(lblNewLabel);

        JLabel lblNewLabel_1 = new
JLabel("Item ID:");
        lblNewLabel_1.setFont(new
Font("Times New Roman", Font.ITALIC, 18));
        lblNewLabel_1.setBounds(38,
144, 127, 21);

        contentPane.add(lblNewLabel_1);
        JLabel lblNewLabel_1_1 =
new JLabel("Item Name:");

        lblNewLabel_1_1.setFont(new
Font("Times New Roman", Font.ITALIC, 18));

        lblNewLabel_1_1.setBounds(38, 201,
127, 21);

        contentPane.add(lblNewLabel_1_1);
        JLabel lblNewLabel_1_2 =
new JLabel("Price:");

        lblNewLabel_1_2.setFont(new
Font("Times New Roman", Font.ITALIC, 18));

        lblNewLabel_1_2.setBounds(38, 255,
127, 21);

        contentPane.add(lblNewLabel_1_2);
        final JButton btnNewButton =
new JButton("add");

        btnNewButton.addActionListener(ne
w ActionListener() {

```

```

        public void
actionPerformed(ActionEvent e) {
            String id =
textField.getText();
            String name =
textField_1.getText();
            String price =
textField_2.getText();
            try {

                Connection con =
DriverManager.getConnection("jdbc:mysql://l
ocalhost:3308/mansi","root","mansi");

                PreparedStatement ps =
con.prepareStatement("insert into
items(ItemID,ItemName,Price)values(?,?,?)");

                ps.setString(1, id);

                ps.setString(2, name);

                ps.setString(3, price);

                ps.executeUpdate();

                JOptionPane.showMessageDialog(btn
NewButton, "Inserted Successfully");
            } catch
(Exception e1) {
                //
                TODO Auto-generated catch block

                e1.printStackTrace();
            }
        });
        btnNewButton.setFont(new
Font("Times New Roman", Font.BOLD, 17));
        btnNewButton.setBounds(17,
298, 103, 35);

        contentPane.add(btnNewButton);
        final JButton btnDelete = new
JButton("delete");

        btnDelete.addActionListener(new
ActionListener() {
            public void
actionPerformed(ActionEvent e) {

```

```

        String id =
        textField.getText();
        String name =
        textField_1.getText();
        String price =
        textField_2.getText();

        try {
            Class.forName("com.mysql.jdbc.Driver");

            Connection con =
            DriverManager.getConnection("jdbc:mysql://localhost:3308/mansi","root","mansi");

            PreparedStatement ps =
            con.prepareStatement("UPDATE items set ItemName=?,Price=? where ItemID=?");
            ps.setString(3, id);
            ps.setString(1, name);
            ps.setString(2, price);

            ps.executeUpdate();

            JOptionPane.showMessageDialog(btnEdit, "Updated Successfully");
        } catch
        (Exception e1) {
            //
            TODO Auto-generated catch block
            e1.printStackTrace();
        }

        JOptionPane.showMessageDialog(btnDelete, "Deleted Successfully");
    } catch
    (Exception e1) {
        //
        TODO Auto-generated catch block
        e1.printStackTrace();
    }

    btnDelete.setFont(new
    Font("Times New Roman", Font.BOLD, 17));
    btnDelete.setBounds(17, 351,
    103, 35);
    contentPane.add(btnDelete);
    final JButton btnEdit = new
    JButton("edit");

    btnEdit.addActionListener(new
    ActionListener() {
        public void
        actionPerformed(ActionEvent e) {
            String id =
            textField.getText();
            String name =
            textField_1.getText();
            String price =
            textField_2.getText();

            try {
                Class.forName("com.mysql.jdbc.Driver");

                Connection con =
                DriverManager.getConnection("jdbc:mysql://localhost:3308/mansi","root","mansi");

                PreparedStatement ps =
                con.prepareStatement("UPDATE items set ItemName=?,Price=? where ItemID=?");
                ps.setString(3, id);
                ps.setString(1, name);
                ps.setString(2, price);

                ps.executeUpdate();

                JOptionPane.showMessageDialog(btnEdit, "Updated Successfully");
            } catch
            (Exception e1) {
                //
                TODO Auto-generated catch block
                e1.printStackTrace();
            }

            btnEdit.setFont(new
            Font("Times New Roman", Font.BOLD, 17));
            btnEdit.setBounds(17, 401,
            103, 35);
            contentPane.add(btnEdit);
            table = new JTable();

            table.setShowVerticalLines(false);

            table.setFillViewportHeight(true);
            table.setBounds(397, 416,
            277, -271);
            contentPane.add(table);
            JButton btnDisplay = new
            JButton("display");

            btnDisplay.addActionListener(new
            ActionListener() {
                public void
                actionPerformed(ActionEvent e) {
                    try {

```

```

        Connection con =
DriverManager.getConnection("jdbc:mysql://l
ocalhost:3308/mansi","root","mansi");

        Statement st = con.createStatement();
String
query = "select * from items";

        ResultSet rs =
rs.executeQuery(query);

        ResultSetMetaData rsmd =
rs.getMetaData();

        DefaultTableModel model =
(DefaultTableModel) tblModel.getModel();
int
cols= rsmd.getColumnCount();

        String[] colName= new String[cols];

        for(int i = 0;i<cols;i++) {

            colName[i]=
rsmd.getColumnNames(i+1);

            model.setColumnIdentifiers(colName)
;
String
id,name,price;

            while(rs.next()) {

                id = rs.getString(1);

                name = rs.getString(2);

                price = rs.getString(3);

                String[] row = {id,name,price};

                model.addRow(row);
            }

            st.close();

            con.close();

        } catch
(SQLException e1) {

```

```

//
TODO Auto-generated catch block

        e1.printStackTrace();
    }
    });
    btnDisplay.setFont(new
Font("Times New Roman", Font.BOLD, 17));
    btnDisplay.setBounds(195,
323, 89, 35);
    contentPane.add(btnDisplay);
    JButton btnClear = new
JButton("clear");

    btnClear.addActionListener(new
ActionListener() {
        public void
actionPerformed(ActionEvent e) {

            tblModel.setModel(new
DefaultTableModel());
        }
    });
    btnClear.setFont(new
Font("Times New Roman", Font.BOLD, 17));
    btnClear.setBounds(195, 369,
96, 35);
    contentPane.add(btnClear);
    JScrollPane scrollPane = new
JScrollPane();
    scrollPane.setBounds(340,
122, 370, 323);
    contentPane.add(scrollPane);

    tblModel = new JTable();

    scrollPane.setViewportViewView(tblModel
);

    textField = new JTextField();
    textField.setBounds(164, 146,
127, 20);

    contentPane.add(textField);
    textField.setColumns(10);
    textField_1 = new JTextField();
    textField_1.setColumns(10);
    textField_1.setBounds(164,
203, 127, 20);

    contentPane.add(textField_1);
    textField_2 = new JTextField();

```

```

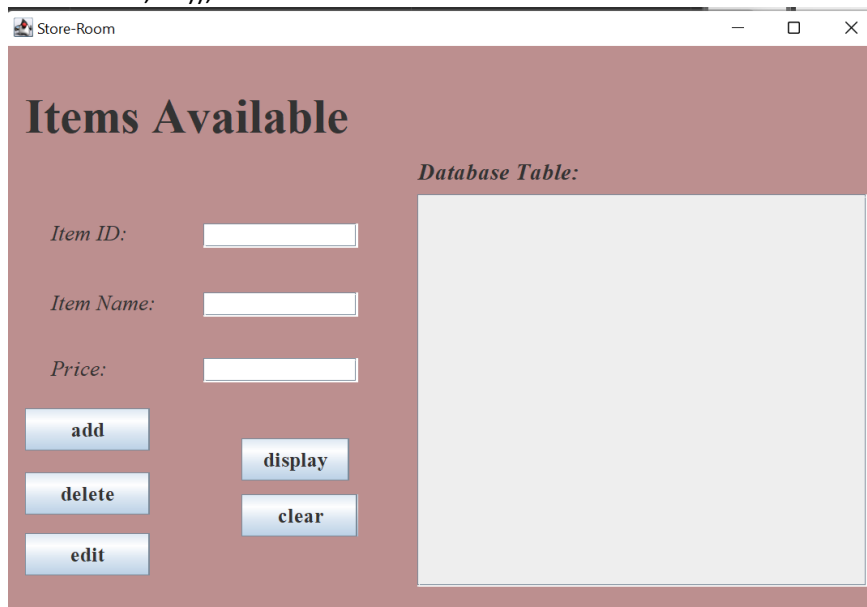
        textField_2.setColumns(10);
        textField_2.setBounds(164,
257, 127, 20);

        contentPane.add(textField_2);
        JLabel lblNewLabel_2 = new
JLabel("Database Table:");
        lblNewLabel_2.setFont(new
Font("Times New Roman", Font.BOLD |
Font.ITALIC, 19));

        lblNewLabel_2.setBounds(340, 97,
213, 14);

        contentPane.add(lblNewLabel_2);
    }
}

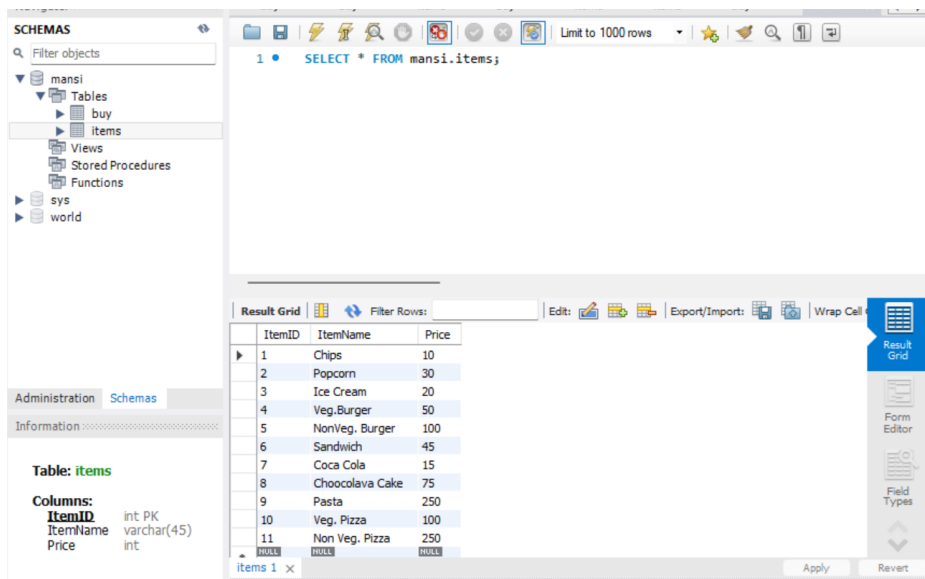
```



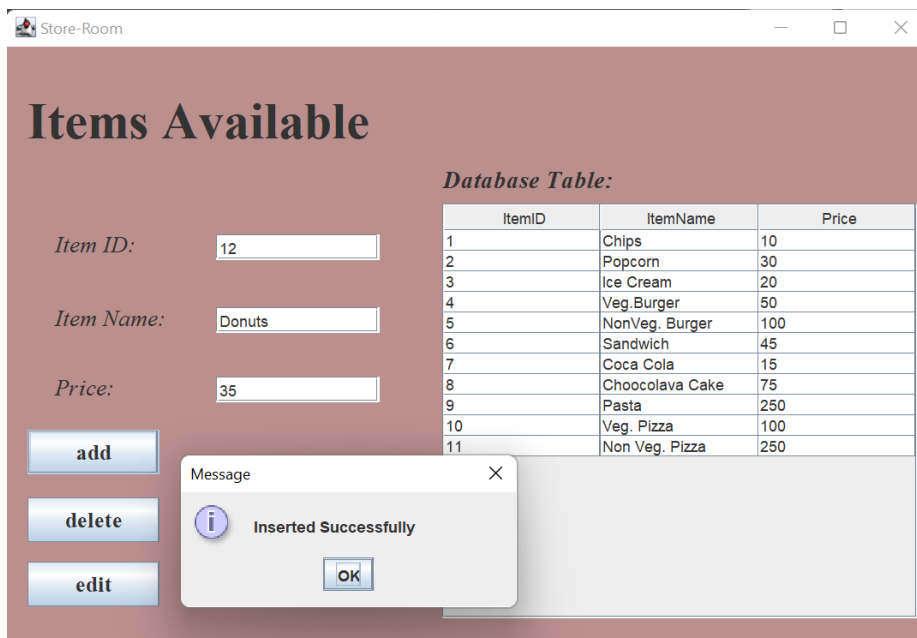
Press Display to display the table from database stored in MySql Workbench



Database in MySql Workbench



Inserting an entry



Checking the table in the JFrame

Store-Room

Items Available

Item ID:

12

Item Name:

Donuts

Price:

35

add

delete

edit

display

clear

Database Table:

| ItemID | ItemName | Price |
|--------|-----------------|-------|
| 1 | Chips | 10 |
| 2 | Popcorn | 30 |
| 3 | Ice Cream | 20 |
| 4 | Veg.Burger | 50 |
| 5 | NonVeg. Burger | 100 |
| 6 | Sandwich | 45 |
| 7 | Coca Cola | 15 |
| 8 | Choocolava Cake | 75 |
| 9 | Pasta | 250 |
| 10 | Veg. Pizza | 100 |
| 11 | Non Veg. Pizza | 250 |
| 12 | Donuts | 35 |

Data also updated in the database

mansi

Tables

buy

Items

Views

Stored Procedures

Functions

sys

world

Administration

Schemas

Table: Items

Columns:

| ItemID | ItemName | Price |
|--------|-----------------|-------|
| 1 | Chips | 10 |
| 2 | Popcorn | 30 |
| 3 | Ice Cream | 20 |
| 4 | Veg.Burger | 50 |
| 5 | NonVeg. Burger | 100 |
| 6 | Sandwich | 45 |
| 7 | Coca Cola | 15 |
| 8 | Choocolava Cake | 75 |
| 9 | Pasta | 250 |
| 10 | Veg. Pizza | 100 |
| 11 | Non Veg. Pizza | 250 |
| 12 | Donuts | 35 |

Deleting an entry

Store-Room

Items Available

Item ID:

12

Item Name:

Price:

add

delete

edit

Database Table:

| ItemID | ItemName | Price |
|--------|-----------------|-------|
| 1 | Chips | 10 |
| 2 | Popcorn | 30 |
| 3 | Ice Cream | 20 |
| 4 | Veg.Burger | 50 |
| 5 | NonVeg. Burger | 100 |
| 6 | Sandwich | 45 |
| 7 | Coca Cola | 15 |
| 8 | Choocolava Cake | 75 |
| 9 | Pasta | 250 |
| 10 | Veg. Pizza | 100 |
| 11 | Non Veg. Pizza | 250 |
| 12 | Donuts | 35 |

Message

Deleted Successfully

OK

Checking the table:

The screenshot shows a web application window titled 'Store-Room'. On the left, there is a form titled 'Items Available' with three input fields: 'Item ID:' (containing '12'), 'Item Name:', and 'Price:'. Below these fields are five buttons: 'add', 'delete', 'edit', 'display', and 'clear'. On the right, there is a section titled 'Database Table:' containing a table with three columns: 'ItemID', 'ItemName', and 'Price'. The table lists 11 items.

| ItemID | ItemName | Price |
|--------|-----------------|-------|
| 1 | Chips | 10 |
| 2 | Popcorn | 30 |
| 3 | Ice Cream | 20 |
| 4 | Veg.Burger | 50 |
| 5 | NonVeg. Burger | 100 |
| 6 | Sandwich | 45 |
| 7 | Coca Cola | 15 |
| 8 | Choocolava Cake | 75 |
| 9 | Pasta | 250 |
| 10 | Veg. Pizza | 100 |
| 11 | Non Veg. Pizza | 250 |

Database updated in MySql too

The screenshot shows a MySQL database interface with a 'Result Grid' displaying the same data as the application table. The table has three columns: 'ItemID', 'ItemName', and 'Price'.

| ItemID | ItemName | Price |
|--------|-----------------|-------|
| 1 | Chips | 10 |
| 2 | Popcorn | 30 |
| 3 | Ice Cream | 20 |
| 4 | Veg.Burger | 50 |
| 5 | NonVeg. Burger | 100 |
| 6 | Sandwich | 45 |
| 7 | Coca Cola | 15 |
| 8 | Choocolava Cake | 75 |
| 9 | Pasta | 250 |
| 10 | Veg. Pizza | 100 |
| 11 | Non Veg. Pizza | 250 |

Updating an entry

The screenshot shows the 'Store-Room' application window. The 'Item ID' field now contains '10' and the 'Price' field contains '80'. A 'Message' dialog box is displayed in the foreground with the text 'Updated Successfully' and an 'OK' button. The 'Database Table' on the right still shows the original data.

| ItemID | ItemName | Price |
|--------|-----------------|-------|
| 1 | Chips | 10 |
| 2 | Popcorn | 30 |
| 3 | Ice Cream | 20 |
| 4 | Veg.Burger | 50 |
| 5 | NonVeg. Burger | 100 |
| 6 | Sandwich | 45 |
| 7 | Coca Cola | 15 |
| 8 | Choocolava Cake | 75 |
| 9 | Pasta | 250 |
| 10 | Veg. Pizza | 100 |
| 11 | Non Veg. Pizza | 250 |

Items Available

Item ID:

Item Name:

Price:

add delete edit display clear

Database Table:

| ItemID | ItemName | Price |
|--------|-----------------|-------|
| 1 | Chips | 10 |
| 2 | Popcorn | 30 |
| 3 | Ice Cream | 20 |
| 4 | Veg.Burger | 50 |
| 5 | NonVeg. Burger | 100 |
| 6 | Sandwich | 45 |
| 7 | Coca Cola | 15 |
| 8 | Choocolava Cake | 75 |
| 9 | Pasta | 250 |
| 10 | Veg. Pizza | 80 |
| 11 | Non Veg. Pizza | 250 |

| | ItemID | ItemName | Price |
|---|--------|-----------------|-------|
| ▶ | 1 | Chips | 10 |
| | 2 | Popcorn | 30 |
| | 3 | Ice Cream | 20 |
| | 4 | Veg.Burger | 50 |
| | 5 | NonVeg. Burger | 100 |
| | 6 | Sandwich | 45 |
| | 7 | Coca Cola | 15 |
| | 8 | Choocolava Cake | 75 |
| | 9 | Pasta | 250 |
| | 10 | Veg. Pizza | 80 |
| | 11 | Non Veg. Pizza | 250 |

6) Billing System(on clicking BUY ITEMS button)

Code:

```
package login1;
import java.awt.BorderLayout;
import java.sql.*;
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.table.DefaultTableModel;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import javax.swing.JTextField;
import javax.swing.JTable;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JSpinner;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.JScrollPane;
```

```
import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;

import javax.swing.JCheckBox;
import javax.swing.SwingConstants;
import javax.swing.JTextArea;
import java.awt.event.ItemListener;
import java.awt.event.ItemEvent;
import javax.swing.event.ChangeListener;
import javax.swing.event.ChangeEvent;
import java.awt.Color;

public class f3 extends JFrame {
    private JFrame frame;
    private JTextField ti;
    private JTextField tn;
    private JTextField sp;
    private JTextField ta;
    private JTextField tt;
    public static void main(String[] args) {
```



```

       .EventQueue.invokeLater(new
Runnable() {
            public void run() {
                try {
                    f3
frame = new f3();

                    frame.setVisible(true);

                    frame.setResizable(false);

                    frame.setTitle("Bill");
                } catch
(Exception e) {

                    e.printStackTrace();

                }

            }
        });
        Connection con;
        ResultSet rs;
        PreparedStatement pst;
        private JTable table;
        public f3() {

            getContentPane().setFont(new
Font("Times New Roman", Font.BOLD, 17));

            getContentPane().setBackground(new
Color(188, 143, 143));

            getContentPane().setLayout(null);
            JLabel lblNewLabel = new
JLabel("Item ID");
            lblNewLabel.setFont(new
Font("Times New Roman", Font.ITALIC, 20));
            lblNewLabel.setBounds(27,
69, 81, 25);

            getContentPane().add(lblNewLabel);
            JLabel lblItemName = new
JLabel("Item Name");
            lblItemName.setFont(new
Font("Times New Roman", Font.ITALIC, 20));
            lblItemName.setBounds(167,
69, 103, 25);

            getContentPane().add(lblItemName);
            JLabel lblQty = new
JLabel("Qty");

```

```

        lblQty.setFont(new
Font("Times New Roman", Font.ITALIC, 20));
        lblQty.setBounds(313, 69, 49,
25);

        getContentPane().add(lblQty);
        final JSpinner sq = new
JSpinner();
        sq.addChangeListener(new
ChangeListener() {
            public void
stateChanged(ChangeEvent e) {
                int qty =
Integer.parseInt(sq.getValue().toString());
                int price =
Integer.parseInt(sp.getText());
                int tot =
qty*price;

                ta.setText(String.valueOf(tot));
            }
        });
        sq.setBounds(293, 105, 73,
20);

        getContentPane().add(sq);
        JLabel lblPrice = new
JLabel("Price");
        lblPrice.setFont(new
Font("Times New Roman", Font.ITALIC, 20));
        lblPrice.setBounds(393, 69,
81, 25);

        getContentPane().add(lblPrice);
        final JLabel lblAmount = new
JLabel("Amount");
        lblAmount.setFont(new
Font("Times New Roman", Font.ITALIC, 20));
        lblAmount.setBounds(507, 69,
81, 25);

        getContentPane().add(lblAmount);
        ti = new JTextField();
        ti.addKeyListener(new
KeyAdapter() {
            @Override
            public void
keyPressed(KeyEvent e) {

                if(e.getKeyCode()==
KeyEvent.VK_ENTER) {

                    String
id = ti.getText();

```

```

        try {
            Connection con =
                DriverManager.getConnection("jdbc:mysql://localhost:3308/mansi","root","mansi");

            PreparedStatement pst =
                con.prepareStatement("select * from items
                where ItemID=?");

            pst.setString(1, id);

            rs = pst.executeQuery();

            if(rs.next() == false) {
                JOptionPane.showMessageDialog(lblA
                mount, "Item ID not found");
            }

            else {

                String iname =
                    rs.getString("ItemName");

                String price =
                    rs.getString("Price");

                tn.setText(iname.trim());

                sp.setText(price.trim());
            }
        } catch
        (Exception e1) {
            // TODO Auto-generated
            catch block

            e1.printStackTrace();
        }

        ti.setBounds(30, 105, 96, 20);
        getContentPane().add(ti);
        ti.setColumns(10);
        tn = new JTextField();

        tn.setColumns(10);
        tn.setBounds(167, 105, 96,
        20);

        getContentPane().add(tn);
        sp = new JTextField();
        sp.setColumns(10);
        sp.setBounds(393, 105, 96,
        20);

        getContentPane().add(sp);
        ta = new JTextField();
        ta.setColumns(10);
        ta.setBounds(507, 105, 96,
        20);

        getContentPane().add(ta);
        tt = new JTextField();
        tt.setColumns(10);
        tt.setBounds(598, 393, 143,
        20);

        getContentPane().add(tt);
        JLabel lblNewLabel_1 = new
        JLabel("Customer Bill Generation");

        lblNewLabel_1.setHorizontalAlignmentmen
        t(SwingConstants.CENTER);
        lblNewLabel_1.setFont(new
        Font("Times New Roman", Font.BOLD, 25));

        lblNewLabel_1.setBounds(293, 21,
        303, 25);

        getContentPane().add(lblNewLabel_1)
        ;

        final JButton btnNewButton =
        new JButton("ADD");

        btnNewButton.addActionListener(ne
        w ActionListener() {
            public void
            actionPerformed(ActionEvent e) {
                String id =
                ti.getText();

                String name =
                tn.getText();

                String q =
                sq.getValue().toString();

                String pr =
                sp.getText();

                String a =
                ta.getText();

                try {

```



```

        p = rs.getString(4);

        a = rs.getString(5);

        String[] row = {id,name,q,p,a};

        model.addRow(row);
    }

    st.close();

    con.close();
    } catch
(SQLException e1) {
    //
    TODO Auto-generated catch block

    e1.printStackTrace();
    }
    });

    btnNewButton_1.setBounds(598, 241,
143, 25);

    getContentPane().add(btnNewButton
_1);

    JButton btnNewButton_1_1 =
new JButton("CLEAR");

    btnNewButton_1_1.setFont(new
Font("Times New Roman", Font.BOLD, 17));

    btnNewButton_1_1.addActionListener
(new ActionListener() {
        public void
actionPerformed(ActionEvent e) {

            table.setModel(new
DefaultTableModel());
        }
    });

    btnNewButton_1_1.setBounds(598,
277, 143, 25);

    getContentPane().add(btnNewButton
_1_1);
Type the item code

```

```

        JButton
btnNewButton_1_1_1 = new
JButton("TOTAL");

        btnNewButton_1_1_1.setFont(new
Font("Times New Roman", Font.BOLD, 17));

        btnNewButton_1_1_1.addActionListe
ner(new ActionListener() {
            public void
actionPerformed(ActionEvent e) {
                int sum =0;
                for(int
i=0;i<table.getRowCount();i++) {
                    sum =
sum + Integer.parseInt(table.getValueAt(i,
4).toString());
                }

                tt.setText(Integer.toString(sum));
            }
        });

        btnNewButton_1_1_1.setBou
nds(598, 327, 143, 46);

        getContentPane().add(btnNe
wButton_1_1_1);

        JLabel lblBillalsoSaved
= new JLabel("Bill (also saved in
the database:");

        lblBillalsoSaved.setFont(new
Font("Times New Roman",
Font.BOLD | Font.ITALIC, 18));

        lblBillalsoSaved.setBounds(2
7, 136, 284, 30);

        getContentPane().add(lblBilla
lsoSaved);
    }
}

```

Customer Bill Generation

| Item ID | Item Name | Qty | Price | Amount |
|---------|-----------|-----|-------|--------|
| 2 | | 0 | | |

Bill (also saved in the database):

ADD

DISPLAY

CLEAR

TOTAL

Press Enter

Customer Bill Generation

| Item ID | Item Name | Qty | Price | Amount |
|---------|-----------|-----|-------|--------|
| 4 | Popcorn | 0 | 30 | |

Bill (also saved in the database):

ADD

DISPLAY

CLEAR

TOTAL

Adjust the quantity & automatically amount gets displayed

Customer Bill Generation

| Item ID | Item Name | Qty | Price | Amount |
|---------|-----------|-----|-------|--------|
| 2 | Popcorn | 4 | 30 | 120 |

Bill (also saved in the database):

ADD

DISPLAY

CLEAR

TOTAL

After adding a few more items press display to see the bill

Customer Bill Generation

Item ID: 8 Item Name: Choocolava Cake Qty: 4 Price: 75 Amount: 300

Bill (also saved in the database):

| ID | ItemName | Qty | Price | Amount |
|----|-----------------|-----|-------|--------|
| 6 | Sandwich | 2 | 45 | 90 |
| 8 | Choocolava Cake | 4 | 75 | 300 |

Buttons: ADD, DISPLAY, CLEAR, TOTAL

Total Amount:

On pressing total button the total amount to pay gets displayed

Customer Bill Generation

Item ID: 8 Item Name: Choocolava Cake Qty: 4 Price: 75 Amount: 300

Bill (also saved in the database):

| ID | ItemName | Qty | Price | Amount |
|----|-----------------|-----|-------|--------|
| 6 | Sandwich | 2 | 45 | 90 |
| 8 | Choocolava Cake | 4 | 75 | 300 |

Buttons: ADD, DISPLAY, CLEAR, TOTAL

Total Amount: 390

Bill stored in database in another table called “buy”

| ID | ItemName | Qty | Price | Amount |
|------|-----------------|------|-------|--------|
| 6 | Sandwich | 2 | 45 | 90 |
| 8 | Choocolava Cake | 4 | 75 | 300 |
| NULL | NULL | NULL | NULL | NULL |

Conclusion: The mini-project was completed successfully.