

DB LAB PROJECT

22F-3068

22F-8772

22F-3430

E-COMMERCE

```
using System;
using System.Windows.Forms;
using Oracle.ManagedDataAccess.Client;

namespace WinFormsApp8
{
    public partial class Form1 : Form
    {
        // Oracle database connection string
        private string connectionString = "User Id=MUBASH;Password=789;Data
Source=localhost:1521/xe";

        public Form1()
        {
            InitializeComponent();
        }

        // Event handler for button click
        private void button1_Click(object sender, EventArgs e)
        {
```

```
string username = textBox1.Text.Trim(); // Assuming textBox1 is for username
string password = textBox2.Text.Trim(); // Assuming textBox2 is for password
bool isChecked = checkBox1.Checked; // Check if checkbox is checked

string selectedRole = comboBox1.SelectedItem.ToString(); // Get the selected
role from comboBox1

// Check if the checkbox is checked first
if (isChecked)
{
    // Validate username, password, and role from Oracle database
    string roleFromDb = ValidateCredentials(username, password);

    if (!string.IsNullOrEmpty(roleFromDb) && roleFromDb == selectedRole)
    {
        // If the role from the DB matches the selected role in ComboBox
        if (selectedRole == "Admin")
        {
            // Open Form10 if role is Admin
            Form10 form10 = new Form10();
            form10.Show();
            this.Hide(); // Hide the current form
        }
        else if (selectedRole == "Customer")
        {
            // Open Form9 if role is Customer
            Form2 form2 = new Form2();
            form2.Show();
        }
    }
}
```

```
        this.Hide(); // Hide the current form
    }
}

else
{
    // Show error message if credentials or role doesn't match
    MessageBox.Show("Invalid username, password, or role!", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);

}
else
{
    // Show error message if the checkbox is not checked
    MessageBox.Show("Please check the 'Check me' checkbox.", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Warning);

}

// Method to validate the credentials and get the role from the Oracle database
private string ValidateCredentials(string username, string password)
{
    try
    {
        // Create a connection to the Oracle database
        using (OracleConnection conn = new OracleConnection(connectionString))
        {
            conn.Open();
        }
    }
}
```

```
// SQL query to get the role based on the username and password

string query = "SELECT Role FROM Users WHERE LOWER.Username) =
LOWER(:userName) AND Password = :password";

using (OracleCommand cmd = new OracleCommand(query, conn))
{
    // Add parameters to prevent SQL injection
    cmd.Parameters.Add(new OracleParameter("userName", username));
    cmd.Parameters.Add(new OracleParameter("password", password));

    // Execute the query and get the role
    object result = cmd.ExecuteScalar();
    if (result != null)
    {
        return result.ToString(); // Return the role (admin or customer)
    }
}

catch (OracleException ex)
{
    // Handle any database errors
    MessageBox.Show($"Database error: {ex.Message}", "Error",
    MessageBoxButtons.OK, MessageBoxIcon.Error);
}

catch (Exception ex)
{
```

```
        MessageBox.Show($"An error occurred: {ex.Message}", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);

    }

    return null; // Return null if credentials are not valid
}

private void textBox1_TextChanged(object sender, EventArgs e)
{
    // Optional: Add logic if needed when the username text changes
}

private void textBox2_TextChanged(object sender, EventArgs e)
{
    // Optional: Add logic if needed when the password text changes
}

private void checkBox1_CheckedChanged(object sender, EventArgs e)
{
    // Optional: Add logic if needed when the checkbox state changes
}

private void label1_Click(object sender, EventArgs e)
{
    // Optional: Add logic if needed when the label is clicked
}
```

```
private void Form1_Load(object sender, EventArgs e)
{
    // Optional: Add logic if needed when the form loads
}

private void button2_Click(object sender, EventArgs e)
{
    // Create an instance of Form12
    Form12 form12 = new Form12();

    // Show Form12
    form12.Show();

    // Optionally, you can hide the current form (if needed)
    this.Hide();
}

private void label4_Click(object sender, EventArgs e)
{
    // Optional: Add logic if needed when the label is clicked
}

private void label4_Click_1(object sender, EventArgs e)
{
    // Optional: Add logic if needed when the label is clicked
}
```

```

private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
{
    // Optional: Add logic if needed when the comboBox selection changes
}
}
}

```



//FORM 222222

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;

```

```
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WinFormsApp8
{
    public partial class Form2 : Form
    {
        public Form2()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            // Show Form1
            Form1 form1 = new Form1();
            form1.Show();

            // Close the current Form2
            this.Close();
        }

        private void button4_Click(object sender, EventArgs e)
        {
            Form5 form5 = new Form5();

            // Show Form3
        }
    }
}
```

```
form5.Show();

// Optionally close the current Form2
this.Close(); // Closes Form2
}

private void Form2_Load(object sender, EventArgs e)
{
}

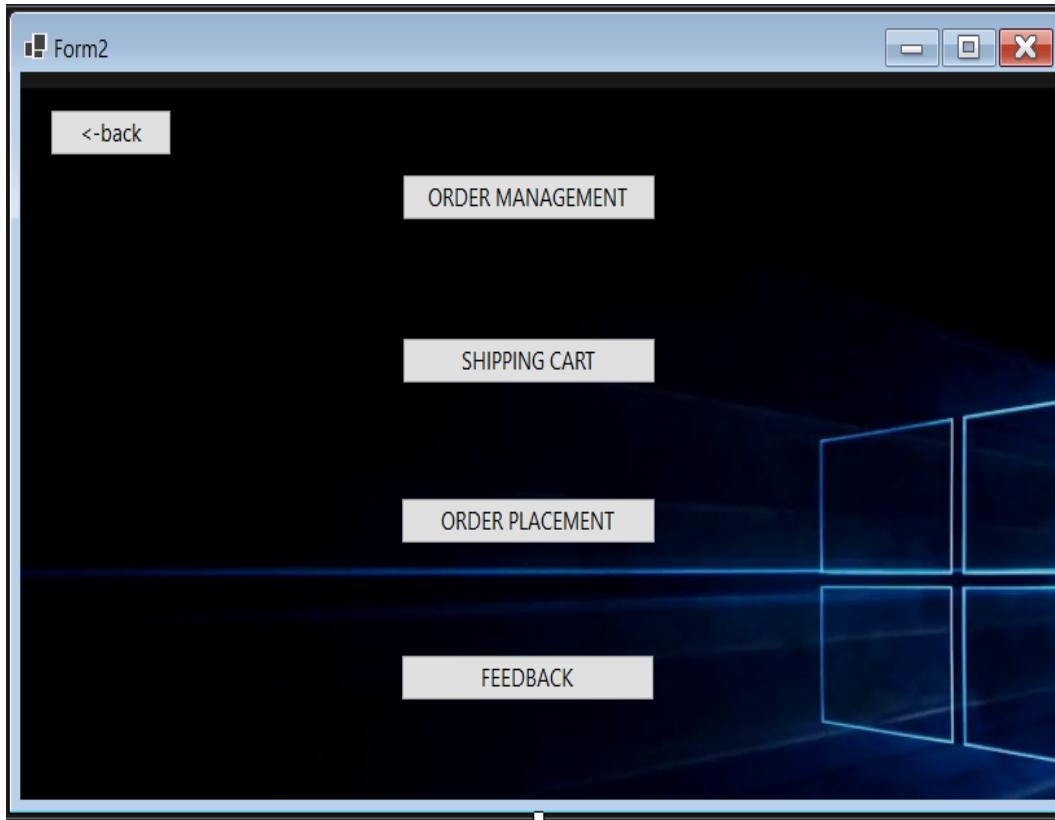
private void button5_Click(object sender, EventArgs e)
{
    Form6 form6 = new Form6();

    // Show Form3
    form6.Show();

    // Optionally close the current Form2
    this.Close(); // Closes Form2
}

private void button6_Click(object sender, EventArgs e)
```

```
{  
    Form7 form7 = new Form7();  
  
    // Show Form3  
    form7.Show();  
  
    // Optionally close the current Form2  
    this.Close(); // Closes Form2  
}  
  
private void button7_Click(object sender, EventArgs e)  
{  
    Form8 form8 = new Form8();  
  
    // Show Form3  
    form8.Show();  
  
    // Optionally close the current Form2  
    this.Close(); // Closes Form2  
}  
}
```



```
//FORM 3333333333333333  
using System;  
using System.Windows.Forms;  
using Oracle.ManagedDataAccess.Client;  
  
namespace WinFormsApp8  
{  
    public partial class Form3 : Form  
    {  
        // Oracle database connection string  
        private string connectionString = "User Id=MUBASH;Password=789;Data  
        Source=localhost:1521/xe";  
  
        public Form3()
```

```
{  
    InitializeComponent();  
}  
  
// Event handler to add/edit user  
private void button1_Click(object sender, EventArgs e)  
{  
    // Create an instance of Form10  
    Form10 form10 = new Form10();  
  
    // Show Form10  
    form10.Show();  
  
    // Close the current form  
    this.Close();  
}  
  
// Method to add or edit user in the database  
private bool AddOrEditUser(string username, string password, string role)  
{  
    try  
    {  
        using (OracleConnection conn = new OracleConnection(connectionString))  
        {  
            conn.Open();
```

```

// Check if the user already exists

    string checkQuery = "SELECT COUNT(*) FROM Users WHERE
    LOWER.Username = LOWER(:username)";

    using (OracleCommand checkCmd = new OracleCommand(checkQuery,
    conn))

    {

        checkCmd.Parameters.Add(new OracleParameter("username",
        username));

        int count = Convert.ToInt32(checkCmd.ExecuteScalar());




        string query;
        if (count == 0)

        {

            // If user doesn't exist, insert a new user

            query = "INSERT INTO Users (Username, Password, Role) VALUES
            (:username, :password, :role)";

            }

        else

        {

            // If user exists, update the user

            query = "UPDATE Users SET Password = :password, Role = :role
            WHERE LOWER.Username = LOWER(:username)";

            }






        using (OracleCommand cmd = new OracleCommand(query, conn))

        {

            cmd.Parameters.Add(new OracleParameter("username", username));
            cmd.Parameters.Add(new OracleParameter("password", password));
            cmd.Parameters.Add(new OracleParameter("role", role));

```

```
        int rowsAffected = cmd.ExecuteNonQuery();

        return rowsAffected > 0; // Return true if the query was successful
    }

}

}

}

catch (OracleException ex)
{
    MessageBox.Show($"Database error: {ex.Message}", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);

    return false;
}

}

// Event handler for Button 2 (Edit User)
private void button2_Click(object sender, EventArgs e)
{
    string username = textBox1.Text.Trim();

    if (!string.IsNullOrEmpty(username))
    {
        bool isSuccess = EditUsername(username);

        if (isSuccess)
        {
            MessageBox.Show("Username edited successfully.");
        }
    }
}
```

```
{  
    MessageBox.Show("Error editing username.");  
}  
}  
else  
{  
    MessageBox.Show("Please enter a valid username.");  
}  
}  
  
// Method to edit the username in the database  
private bool EditUsername(string username)  
{  
    try  
    {  
        using (OracleConnection conn = new OracleConnection(connectionString))  
        {  
            conn.Open();  
  
            string query = "UPDATE Users SET Username = :username WHERE  
LOWER.Username = LOWER(:username)";  
            using (OracleCommand cmd = new OracleCommand(query, conn))  
            {  
                cmd.Parameters.Add(new OracleParameter("username", username));  
  
                int rowsAffected = cmd.ExecuteNonQuery();  
                return rowsAffected > 0; // Return true if the query was successful  
            }  
        }  
    }  
}
```

```
        }

    }

}

catch (OracleException ex)

{

    MessageBox.Show($"Database error: {ex.Message}", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);

    return false;

}

}

// Event handler for Button 3 (Search User)

private void button3_Click(object sender, EventArgs e)

{

    string username = textBox2.Text.Trim();

    if (!string.IsNullOrEmpty(username))

    {

        SearchUser(username);

    }

    else

    {

        MessageBox.Show("Please enter a username to search.");

    }

}

// Method to search for a user in the database

private void SearchUser(string username)
```

```
{  
try  
{  
    using (OracleConnection conn = new OracleConnection(connectionString))  
    {  
        conn.Open();  
  
        // SQL query to search for a user by username  
        string query = "SELECT * FROM Users WHERE LOWER.Username) =  
        LOWER(:username);  
        using (OracleCommand cmd = new OracleCommand(query, conn))  
        {  
            cmd.Parameters.Add(new OracleParameter("username", username));  
  
            using (OracleDataReader reader = cmd.ExecuteReader())  
            {  
                if (reader.Read())  
                {  
                    // Display user details in Textboxes  
                    textBox1.Text = reader["Username"].ToString(); // Show username  
in textBox1  
                    textBox2.Text = reader["Password"].ToString(); // Show password in  
textBox2  
                    textBox3.Text = reader["Role"].ToString(); // Show role in textBox3  
                    MessageBox.Show("User found.");  
                }  
                else  
                {  
  
    
```

```
        MessageBox.Show("User not found.", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Warning);

    }

}

}

}

catch (OracleException ex)

{

    MessageBox.Show($"Database error: {ex.Message}", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);

}

// Event handler for Button 4 (Assign Role)

private void button4_Click(object sender, EventArgs e)

{

    string username = textBox3.Text.Trim();

    string role = textBox2.Text.Trim();

    if (!string.IsNullOrEmpty(username) && !string.IsNullOrEmpty(role))

    {

        bool isSuccess = AssignRole(username, role);

        if (isSuccess)

        {

            MessageBox.Show("Role assigned successfully.");

        }

        else

        {


```

```
        MessageBox.Show("Error assigning role.");

    }

}

else

{

    MessageBox.Show("Please enter both username and role.");

}

}

// Method to assign a role to a user in the database

private bool AssignRole(string username, string role)

{

    try

    {

        using (OracleConnection conn = new OracleConnection(connectionString))

        {

            conn.Open();

            string query = "UPDATE Users SET Role = :role WHERE
LOWER.Username) = LOWER(:username)";

            using (OracleCommand cmd = new OracleCommand(query, conn))

            {

                cmd.Parameters.Add(new OracleParameter("role", role));
                cmd.Parameters.Add(new OracleParameter("username", username));

                int rowsAffected = cmd.ExecuteNonQuery();

                return rowsAffected > 0; // Return true if the query was successful
            }
        }
    }
}
```

```
        }

    }

}

catch (OracleException ex)

{

    MessageBox.Show($"Database error: {ex.Message}", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);

    return false;

}

private void textBox1_TextChanged(object sender, EventArgs e)

{

    // Your code for textBox1 changes

}

private void textBox2_TextChanged(object sender, EventArgs e)

{

    // Your code for textBox1 changes

}

private void textBox3_TextChanged(object sender, EventArgs e)

{

    // Your code for textBox1 changes

}

// Event handler for Button 5 (Delete User)

private void button5_Click(object sender, EventArgs e)

{

    string username = textBox4.Text.Trim();

    if (!string.IsNullOrEmpty(username))
```

```
{  
    bool isSuccess = DeleteUser(username);  
  
    if (isSuccess)  
    {  
        MessageBox.Show("User deleted successfully.");  
    }  
  
    else  
    {  
        MessageBox.Show("Error deleting user or user cannot be deleted because  
they are an Admin.");  
    }  
}  
  
else  
{  
    MessageBox.Show("Please enter a username to delete.");  
}  
}  
  
// Method to delete a user from the database  
private bool DeleteUser(string username)  
{  
    try  
    {  
        using (OracleConnection conn = new OracleConnection(connectionString))  
        {  
            conn.Open();  
        }  
    }  
}
```

```

// Check if the user has the role 'Admin'

    string checkRoleQuery = "SELECT Role FROM Users WHERE
    LOWER(Username) = LOWER(:username)";

    using (OracleCommand checkRoleCmd = new
    OracleCommand(checkRoleQuery, conn))

    {

        checkRoleCmd.Parameters.Add(new OracleParameter("username",
        username));

        object roleResult = checkRoleCmd.ExecuteScalar();

        if (roleResult != null && roleResult.ToString().Equals("Admin",
        StringComparison.OrdinalIgnoreCase))

        {

            // If the user is an Admin, do not allow deletion

            MessageBox.Show("User with the role 'Admin' cannot be deleted.",
            "Error", MessageBoxButtons.OK, MessageBoxIcon.Warning);

            return false;

        }

    }

    // If the user is not an Admin, proceed with deletion

    string query = "DELETE FROM Users WHERE LOWER(Username) =
    LOWER(:username)";

    using (OracleCommand cmd = new OracleCommand(query, conn))

    {

        cmd.Parameters.Add(new OracleParameter("username", username));

        int rowsAffected = cmd.ExecuteNonQuery();

        return rowsAffected > 0; // Return true if the query was successful

```

```
        }

    }

}

catch (OracleException ex)

{

    MessageBox.Show($"Database error: {ex.Message}", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);

    return false;

}

}

private void textBox4_TextChanged(object sender, EventArgs e)

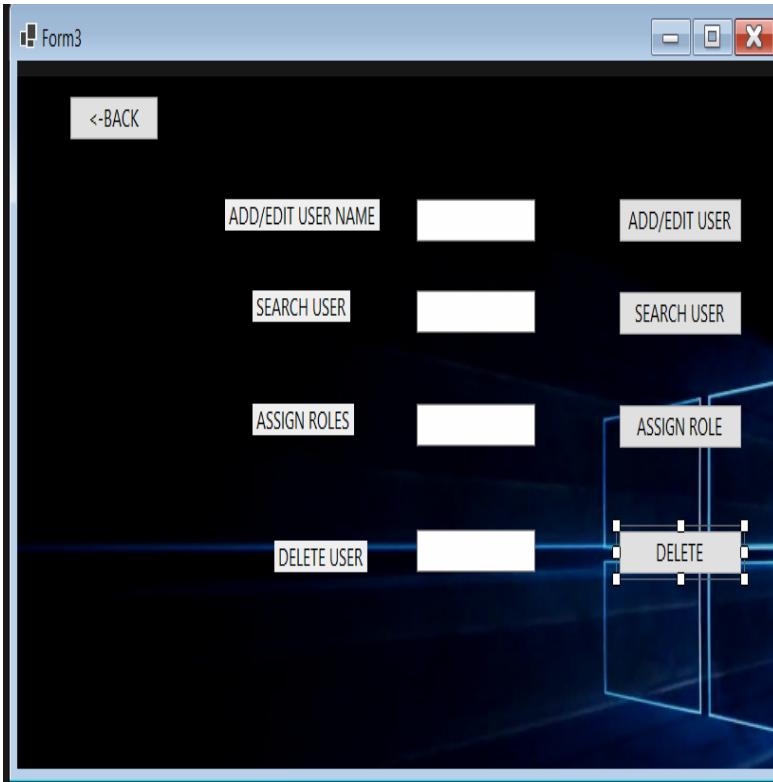
{



}

}

}
```



```
//FORM 444444444444  
using System;  
using System.Data;  
using System.Windows.Forms;  
using Oracle.ManagedDataAccess.Client; // Include this namespace for Oracle  
operations  
  
namespace WinFormsApp8  
{  
    public partial class Form4 : Form  
    {  
        // Connection string for the Oracle database  
        private string connectionString = "User Id=MUBASH;Password=789;Data  
Source=localhost:1521/xe";
```

```
public Form4()
{
    InitializeComponent();
}

private void button1_Click(object sender, EventArgs e)
{
    // Navigate to another form
    Form10 form10 = new Form10();
    form10.Show();
    this.Close();
}

private void button3_Click(object sender, EventArgs e) // ADD PRODUCT
{
    try
    {
        using (OracleConnection connection = new
        OracleConnection(connectionString))

        {
            connection.Open();

            string query = "INSERT INTO Products (ProductID, ProductName,
Category, Price, Stock) " +
                           "VALUES (:ProductID, :ProductName, :Category, :Price, :Stock)";

            using (OracleCommand command = new OracleCommand(query,
connection))
            {

```

```

        command.Parameters.Add(":ProductID", OracleDbType.Int32).Value =
int.Parse(textBox4.Text);

        command.Parameters.Add(":ProductName",
OracleDbType.Varchar2).Value = textBox1.Text;

        command.Parameters.Add(":Category", OracleDbType.Varchar2).Value
= textBox2.Text;

        command.Parameters.Add(":Price", OracleDbType.Decimal).Value =
decimal.Parse(textBox3.Text);

        command.Parameters.Add(":Stock", OracleDbType.Int32).Value =
int.Parse(textBox5.Text);

        command.ExecuteNonQuery();

        MessageBox.Show("Product added successfully.");
    }

}

catch (Exception ex)
{
    MessageBox.Show("Error adding product: " + ex.Message);
}
}

```

```

private void button4_Click(object sender, EventArgs e) // DELETE PRODUCT
{
    try
    {
        using (OracleConnection connection = new
OracleConnection(connectionString))
        {

```

```
connection.Open();

    string checkQuery = "SELECT COUNT(*) FROM Products WHERE
ProductID = :ProductID";

        using (OracleCommand checkCommand = new
OracleCommand(checkQuery, connection))

    {

        checkCommand.Parameters.Add(":ProductID",
OracleDbType.Int32).Value = int.Parse(textBox4.Text);

        int count = Convert.ToInt32(checkCommand.ExecuteScalar());



        if (count > 0)

    {

        string deleteQuery = "DELETE FROM Products WHERE ProductID =
:ProductID";

            using (OracleCommand deleteCommand = new
OracleCommand(deleteQuery, connection))

    {

            deleteCommand.Parameters.Add(":ProductID",
OracleDbType.Int32).Value = int.Parse(textBox4.Text);

            deleteCommand.ExecuteNonQuery();

            MessageBox.Show("Product deleted successfully.");

    }

}

        else

    {

        MessageBox.Show("Product not found.");

    }

}
```

```

        }

    }

    catch (Exception ex)
    {
        MessageBox.Show("Error deleting product: " + ex.Message);
    }
}

private void button2_Click(object sender, EventArgs e) // UPDATE PRODUCT
{
    try
    {
        using (OracleConnection connection = new
OracleConnection(connectionString))

        {
            connection.Open();

            // Query to check if the product exists with matching ProductID,
            ProductName, Category, and Stock

            string checkQuery = "SELECT COUNT(*) FROM Products " +
                "WHERE ProductID = :ProductID AND ProductName =
:ProductName " +
                "AND Category = :Category AND Stock = :Stock";

            using (OracleCommand checkCommand = new
OracleCommand(checkQuery, connection))

            {
                // Add parameters for validation
                checkCommand.Parameters.Add(":ProductID",
OracleDbType.Int32).Value = int.Parse(textBox4.Text);
            }
        }
    }
}

```

```

        checkCommand.Parameters.Add(":ProductName",
OracleDbType.Varchar2).Value = textBox1.Text;

        checkCommand.Parameters.Add(":Category",
OracleDbType.Varchar2).Value = textBox2.Text;

        checkCommand.Parameters.Add(":Stock", OracleDbType.Int32).Value =
int.Parse(textBox5.Text);

// Execute the query to check if the record exists
int count = Convert.ToInt32(checkCommand.ExecuteScalar());

if (count > 0)
{
    // Update query to modify only the Price
    string updateQuery = "UPDATE Products SET Price = :Price " +
    "WHERE ProductID = :ProductID AND ProductName =
:ProductName " +
    "AND Category = :Category AND Stock = :Stock";

    using (OracleCommand updateCommand = new
OracleCommand(updateQuery, connection))

    {
        // Add parameters for the update query
        updateCommand.Parameters.Add(":Price",
OracleDbType.Decimal).Value = decimal.Parse(textBox3.Text);

        updateCommand.Parameters.Add(":ProductID",
OracleDbType.Int32).Value = int.Parse(textBox4.Text);

        updateCommand.Parameters.Add(":ProductName",
OracleDbType.Varchar2).Value = textBox1.Text;

        updateCommand.Parameters.Add(":Category",
OracleDbType.Varchar2).Value = textBox2.Text;

```

```

        updateCommand.Parameters.Add(":Stock",
OracleDbType.Int32).Value = int.Parse(textBox5.Text);

        // Execute the update command
        updateCommand.ExecuteNonQuery();
        MessageBox.Show("Product price updated successfully.");
    }

}

else
{
    MessageBox.Show("Product not found with the specified details.");
}

}

}

}

catch (Exception ex)
{
    MessageBox.Show("Error updating product: " + ex.Message);
}

}

private void textBox4_TextChanged(object sender, EventArgs e) {} // Product ID
private void textBox1_TextChanged(object sender, EventArgs e) {} // Product Name
private void textBox2_TextChanged(object sender, EventArgs e) {} // Product Category
private void textBox3_TextChanged(object sender, EventArgs e) {} // Product Price

```

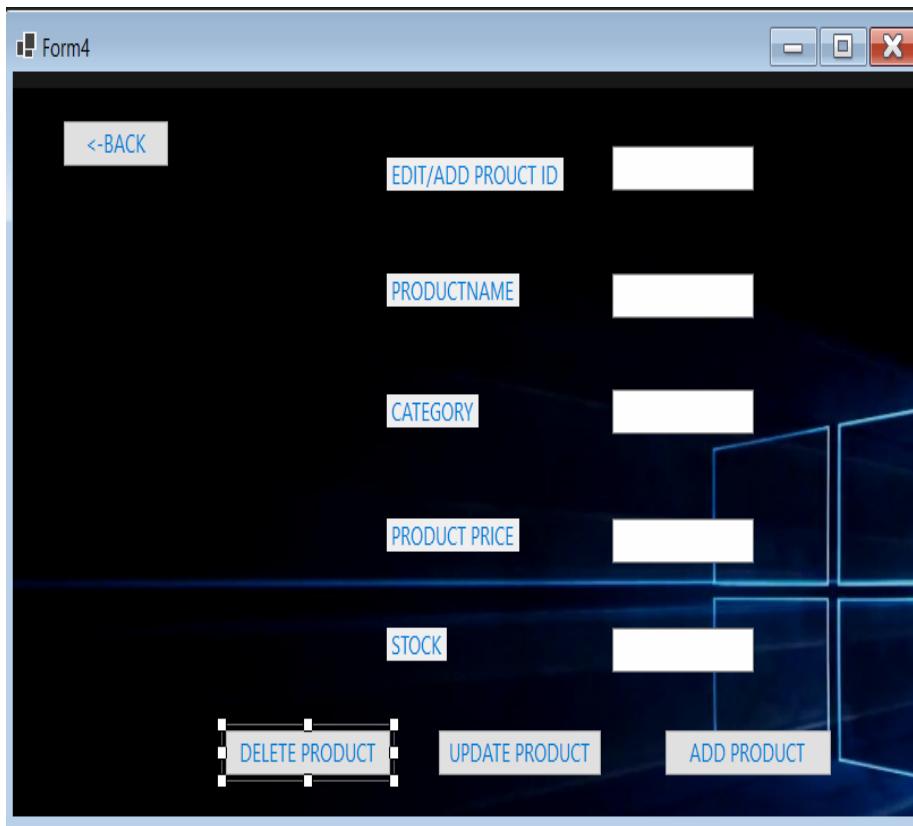
```

        private void textBox5_TextChanged(object sender, EventArgs e) { } // Product
Stock

        private void label5_Click(object sender, EventArgs e) { }

    }
}

```



```

//FORM 55555555555\

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

```

```
using System.Windows.Forms;

namespace WinFormsApp8
{
    public partial class Form5 : Form
    {
        public Form5()
        {
            InitializeComponent();
        }

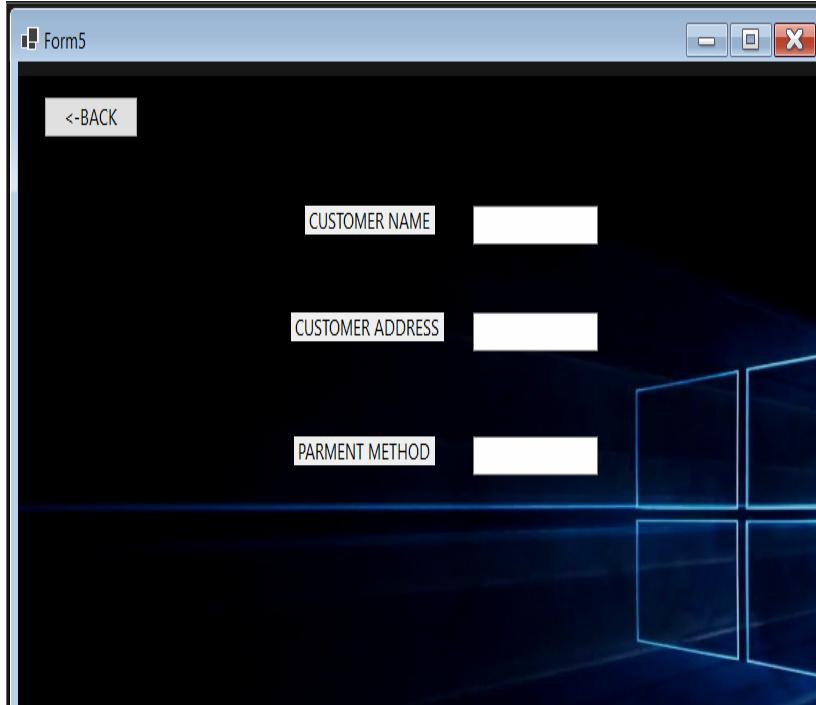
        private void button1_Click(object sender, EventArgs e)
        {
            // Create a new instance of Form2
            Form2 form2 = new Form2();

            // Show Form2
            form2.Show();

            // Close the current form (e.g., Form3)
            this.Close();
        }

        private void textBox1_TextChanged(object sender, EventArgs e)
        {
        }
    }
}
```

```
 }  
 }
```



```
//FORM 6666666  
using System;  
using System.Collections.Generic;  
using System.Linq;  
using System.Text;  
using System.Windows.Forms;  
  
namespace WinFormsApp8  
{  
    public partial class Form6 : Form  
    {  
        // Simulating a shared order data structure.  
        private static List<Order> Orders = new List<Order>();
```

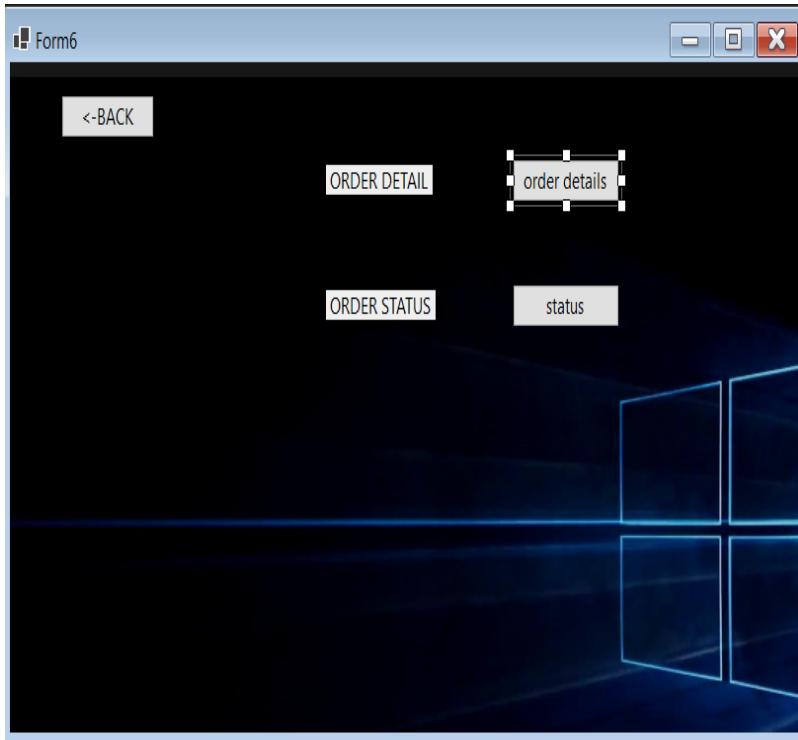
```
public Form6()
{
    InitializeComponent();
}

// Simulated method to add orders (called from Form7 or elsewhere).
public static void AddOrder(Order newOrder)
{
    Orders.Add(newOrder);
}

private void button1_Click(object sender, EventArgs e)
{
    // Navigate to Form2
    Form2 form2 = new Form2();
    form2.Show();
    this.Close();
}

private void button2_Click(object sender, EventArgs e)//ORSER DETAIL
```

```
{  
}  
  
private void button3_Click(object sender, EventArgs e)//ORDER STATUS  
{  
  
}  
  
}  
  
// Simulated Order class to store order details.  
public class Order  
{  
    public int OrderID { get; set; }  
    public string ProductName { get; set; }  
    public int Quantity { get; set; }  
    public decimal Total { get; set; }  
    public string Status { get; set; } = "Processing"; // Default status.  
}  
}
```



```
using System;
using System.Collections.Generic;
using System.Data;
using System.Windows.Forms;

namespace WinFormsApp8
{
    public partial class Form7 : Form
    {
        // Dictionary to hold product details (ProductName -> (Price, Stock))
        private Dictionary<string, (decimal Price, int Stock)> products = new
        Dictionary<string, (decimal Price, int Stock)>

        {
            { "Wireless Headphones", (59.99m, 100) },
            { "Smartphone", (699.99m, 50) },
        }
    }
}
```

```

        { "Gaming Laptop", (1199.99m, 20) },
        { "Office Chair", (149.99m, 30) },
        { "Running Shoes", (89.99m, 75) },
        { "Coffee Maker", (49.99m, 40) },
        { "Fitness Tracker", (129.99m, 60) }

    };

    // List to hold selected products
    private List<string> cart = new List<string>();

    public Form7()
    {
        InitializeComponent();
    }

    private void Form7_Load(object sender, EventArgs e)
    {
        // Populate the ComboBox with product names
        comboBox1.Items.AddRange(products.Keys.ToArray());
    }

    private void button2_Click(object sender, EventArgs e) // ADD PRODUCT
    {
        // Add selected product to the cart
        string selectedProduct = comboBox1.SelectedItem?.ToString();
        if (!string.IsNullOrEmpty(selectedProduct))
        {

```

```
        cart.Add(selectedProduct);

        MessageBox.Show($"'{selectedProduct}' has been added to the cart.");

    }

    else

    {

        MessageBox.Show("Please select a product to add.");

    }

}

private void button3_Click(object sender, EventArgs e) // REMOVE PRODUCT

{

    // Remove product from the cart based on TextBox1 input

    string productToDelete = textBox1.Text.Trim();

    if (!string.IsNullOrEmpty(productToDelete) && cart.Contains(productToDelete))

    {

        cart.Remove(productToDelete);

        MessageBox.Show($"'{productToDelete}' has been removed from the cart.");

    }

    else

    {

        MessageBox.Show("Product not found in the cart or input is invalid.");

    }

}

private void button4_Click(object sender, EventArgs e) // CALCULATE TOTAL
AMOUNT

{
```

```
// Calculate the total price of products in the cart
decimal totalPrice = 0;
foreach (var product in cart)
{
    totalPrice += products[product].Price;
}

MessageBox.Show($"Total price of selected products: {totalPrice:C}");

private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
{
    // Add logic for when the selected item in comboBox1 changes (if needed).
}

private void button1_Click(object sender, EventArgs e)
{
    // Logic for navigating to Form2.
    Form2 form2 = new Form2();
    form2.Show();
    this.Close();
}

private void textBox1_TextChanged(object sender, EventArgs e)
{
    // Logic for TextBox1 text change (if needed).
}
```

```
private void textBox2_TextChanged(object sender, EventArgs e)
{
    // Logic for TextBox2 text change (if needed).
}

private void button6_Click(object sender, EventArgs e)
{
    MessageBox.Show("PENDING");
}

private void button5_Click(object sender, EventArgs e)
{
    if (cart.Count == 0)
    {
        MessageBox.Show("No products have been added to the cart.");
        return;
    }

    // Initialize a string to hold order details
    string orderDetails = "Order Details:\n\n";

    decimal totalPrice = 0;

    // Loop through the cart to show each product, its price, and stock status
    foreach (var product in cart)
    {
        decimal price = products[product].Price;
        int stock = products[product].Stock;
```

```
// Add product details to the string
orderDetails += $"{product} - Price: {price:C}, Stock: {stock}\n";

// Add the price to the total
totalPrice += price;

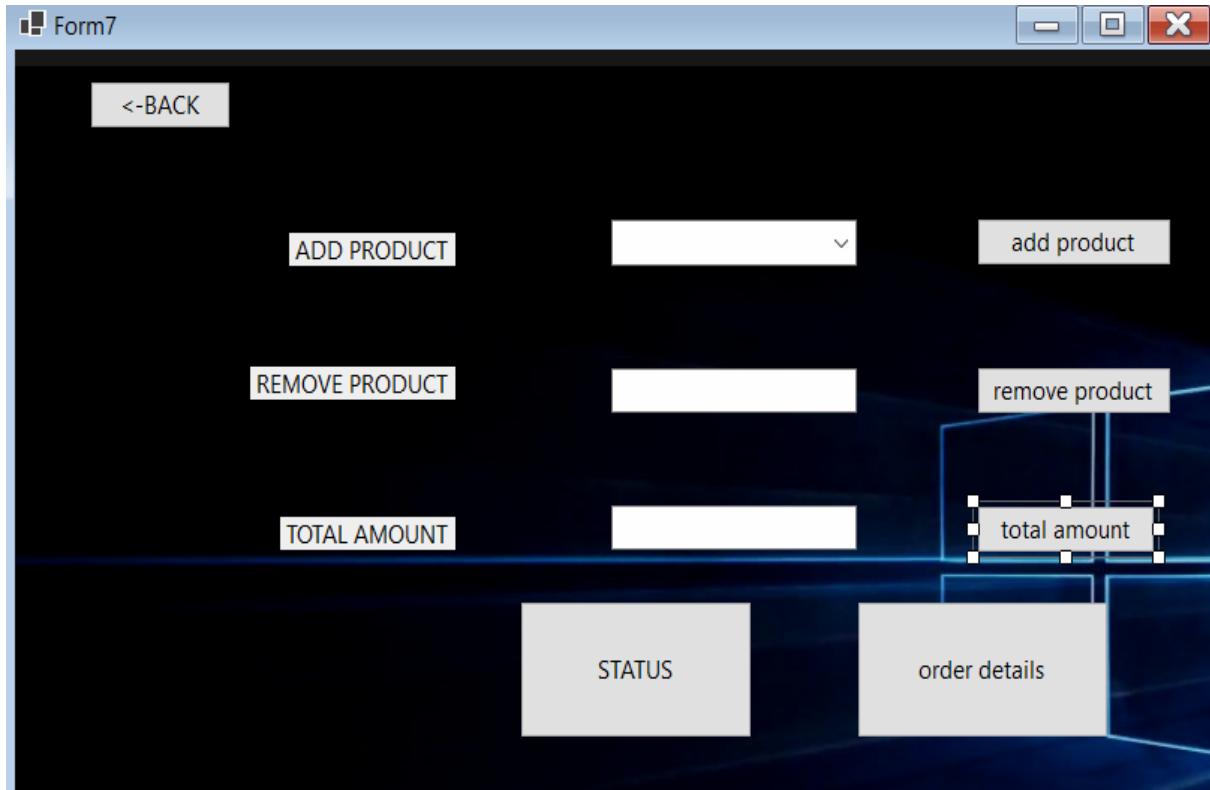
}

// Add the total price to the details string
orderDetails += $"\nTotal Price: {totalPrice:C}";

// Show the order details in a MessageBox
MessageBox.Show(orderDetails, "Order Details");

}

}
```



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
```

```
namespace WinFormsApp8
```

```
{
```

```
    public partial class Form8 : Form
    {

```

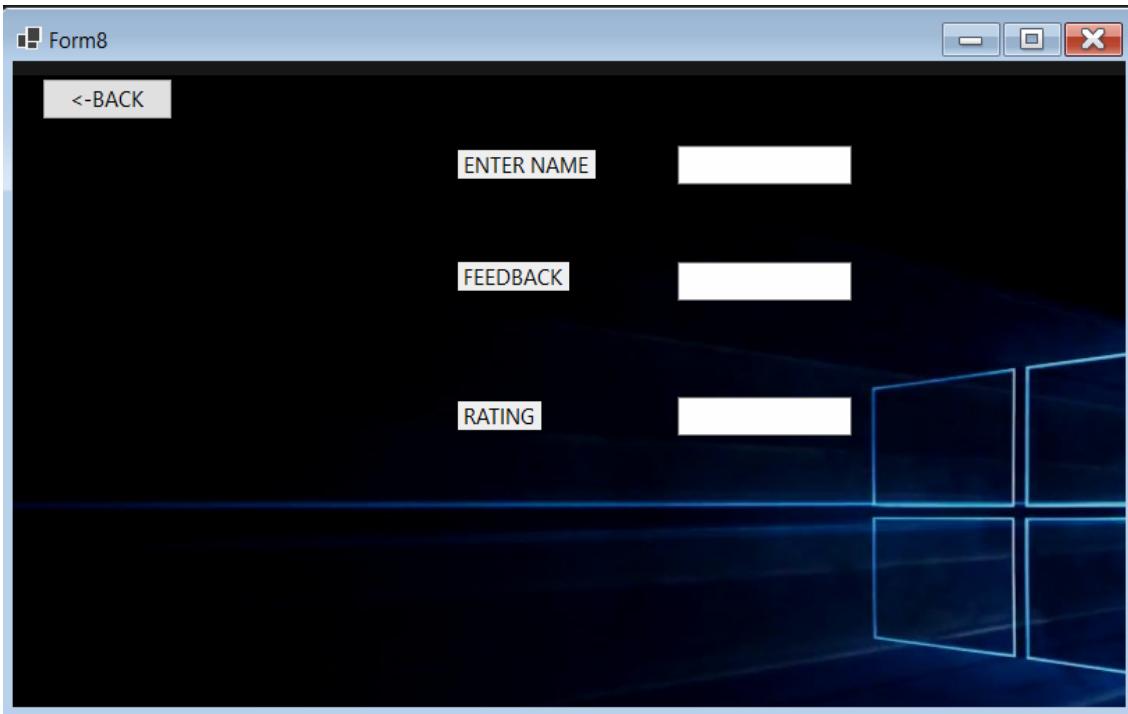
```
public Form8()
{
    InitializeComponent();
}

private void button1_Click(object sender, EventArgs e)
{
    // Create a new instance of Form2
    Form2 form2 = new Form2();

    // Show Form2
    form2.Show();

    // Close the current form (e.g., Form3)
    this.Close();
}

private void textBox2_TextChanged(object sender, EventArgs e)
{
}
```



```
using System;
using System.Data;
using System.Windows.Forms;
using Oracle.ManagedDataAccess.Client;

namespace WinFormsApp8
{
    public partial class Form9 : Form
    {
        public Form9()
        {
            InitializeComponent();
        }

        // Oracle database connection string
```

```
private string connectionString = "User Id=MUBASH;Password=789;Data  
Source=localhost:1521/xe";  
  
private void button1_Click(object sender, EventArgs e)  
{  
    // Get the values entered in the textboxes and checkbox  
    string userName = textBox1.Text;  
    string password = textBox2.Text;  
    bool isChecked = checkBox1.Checked;  
  
    // Check if the "Check me" checkbox is checked  
    if (isChecked)  
    {  
        // Validate the credentials against the USERS table  
        if (ValidateCredentials(userName, password))  
        {  
            // If valid and role is Admin, open Form10  
            Form10 form10 = new Form10();  
            form10.Show();  
            this.Hide(); // Hide Form9  
        }  
        else  
        {  
            MessageBox.Show("Invalid credentials or role is not Admin.");  
        }  
    }  
    else  
{
```

```
{  
    MessageBox.Show("Please check the 'Check me' box.");  
}  
}  
  
// Method to validate the credentials from the USERS table  
private bool ValidateCredentials(string userName, string password)  
{  
    try  
    {  
        using (OracleConnection conn = new OracleConnection(connectionString))  
        {  
            conn.Open();  
  
            string query = "SELECT Role FROM Users WHERE Username =  
:userName AND Password = :password";  
  
            using (OracleCommand cmd = new OracleCommand(query, conn))  
            {  
                cmd.Parameters.Add(new OracleParameter("userName", userName));  
                cmd.Parameters.Add(new OracleParameter("password", password));  
  
                // Execute the query and get the role  
                object result = cmd.ExecuteScalar();  
                if (result != null && result.ToString() == "Admin")  
                {  
                    return true; // Role is Admin  
                }  
            }  
        }  
    }  
}
```

```
        }

    }

}

catch (OracleException ex)

{

    MessageBox.Show($"Database error: {ex.Message}", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);

}

catch (Exception ex)

{

    MessageBox.Show($"An error occurred: {ex.Message}", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);

}

return false; // Invalid credentials or role is not Admin

}

// Optional: Event handler for textBox1 TextChanged (if you need it)

private void textBox1_TextChanged(object sender, EventArgs e)

{

    // Your code for textBox1 changes

}

// Optional: Event handler for textBox2 TextChanged (if you need it)

private void textBox2_TextChanged(object sender, EventArgs e)

{

    // Your code for textBox2 changes

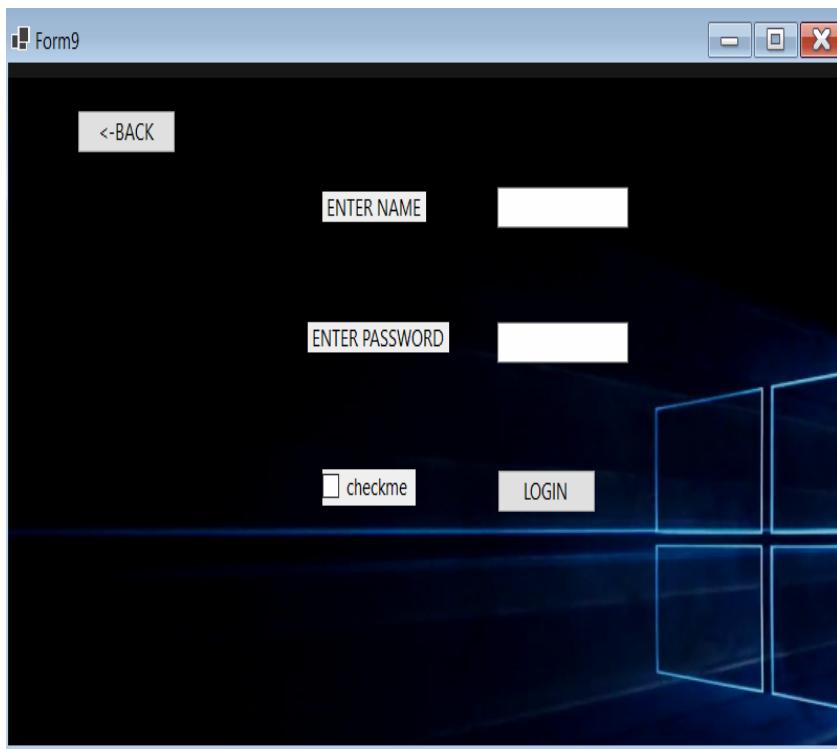
}
```

```

// Optional: Event handler for checkBox1_CheckedChanged (if you need it)
private void checkBox1_CheckedChanged(object sender, EventArgs e)
{
    // You can add any logic if needed for checkbox state changes
}

private void button2_Click(object sender, EventArgs e)
{
    Form12 form12 = new Form12();
    form12.Show(); // Opens Form12 as a separate window
}
}

```



using System;

```
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace WinFormsApp8
{
    public partial class Form10 : Form
    {
        public Form10()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            // Create an instance of Form3
            Form3 form3 = new Form3();

            // Show Form3
            form3.Show();

            // Optional: Hide or Close Form1 if needed
        }
    }
}
```

```
// this.Hide(); // To hide Form1
// this.Close(); // To close Form1
}

private void button2_Click(object sender, EventArgs e)
{
    // Create an instance of Form3
    Form4 form4 = new Form4();

    // Show Form3
    form4.Show();

    // Optional: Hide or Close Form1 if needed
    // this.Hide(); // To hide Form1
    // this.Close(); // To close Form1

}

private void button3_Click(object sender, EventArgs e)
{
    Form9 form9 = new Form9();
    form9.Show(); // Opens Form9
}

}
```

}

