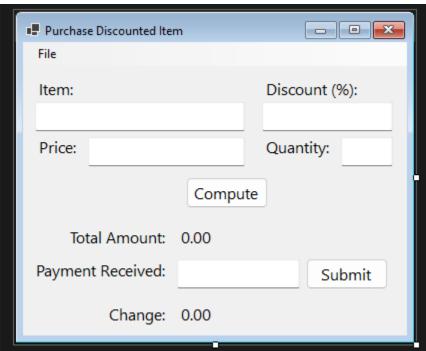
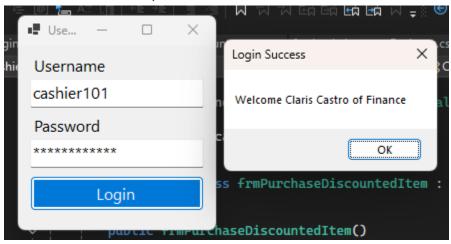
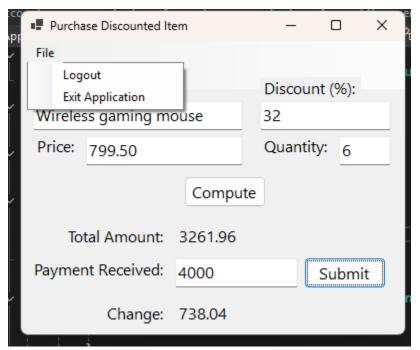
Screenshot of the design:





Screenshot of the output:





Screenshot of the code:

```
frmLoginAccount.Designer.cs frmLoginAccount.cs [Design] Program.cs frmPurchaseD...untedItem.cs + X frmPurchaseDi...em.cs [Design]
CashierApplication
                                                                                                                                                                              → 😭 frmPurchaseDiscountedItem()
          v using ItemNamespace;
using static System Windows Forms VisualStyles VisualStyleElement.Tab;
                                                                                                                                                                                                                                                                           mespace CashierApplication
                               InitializeComponent();
                          1 reference
private void Compute_Click(object sender, EventArgs e)
{
                                    DiscountedItem item = new DiscountedItem(
Item.Text,
Convert.ToDouble(Price.Text),
Convert.ToInt32(Quantity.Text),
Convert.ToInt32(Quantity.Text);
                                     Total.Text = item.getTotalPrice().ToString("0.00");
                                catch (Exception ex)
                                     MessageBox.Show($"Error: {ex.Message}");
                          Oreferences private void Submit_Click(object sender, EventArgs e)
                                     DiscountedItem item = new DiscountedItem(
    Item.Text,
    Convert.ToDouble(Price.Text),
    Convert.ToInt32(Quantity.Text),
    Convert.ToDouble(Discount.Text));
                                     item.setPayment(Convert.ToDouble(Payment.Text));
Change.Text = item.getChange().ToString("0.00");
                                                                                                                                                                                                                                                    Ln: 10 Ch: 35 SPC CRLF

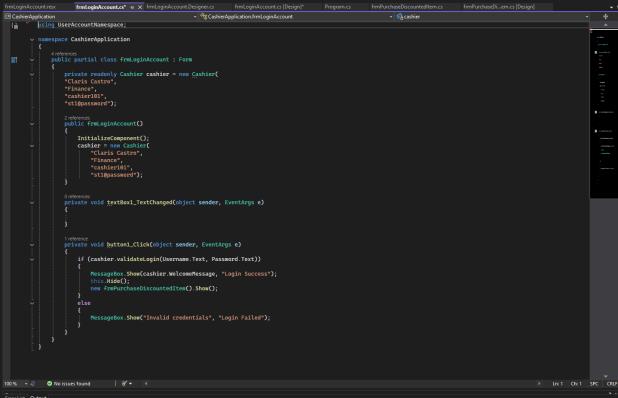
❷ No is

                                 frmLoginAccount.cs frmLoginAccount.Designer.cs frmLoginAccount.cs [Design] Program.cs frmPurchaseD...untedItem.cs 🛊 X frmPurchaseDi...em.cs [Design]
CIII CashierAi
                                      MessageBox.Show($"Error: {ex.Message}");
                                                                                                                                                                                                                                                                            DiscountedItem item = new DiscountedItem(
                                            Ttem.Text,
Convert.ToDouble(Price.Text),
Convert.ToInt32(Quantity.Text),
Convert.ToDouble(Discount.Text));
                                      item.setPayment(Convert.ToDouble(Payment.Text));
Change.Text = item.getChange().ToString("0.00");
                                  catch (Exception ex)
                                     MessageBox.Show($"Error: {ex.Message}");
                          private void fileToolStripMenuItem_Click(object sender, EventArgs e)
                                MenuStrip menu = new MenuStrip();
ToolStripMenuItem fileMenu = new ToolStripMenuItem("File");
                                ToolStripMenuItem logoutItem = new ToolStripMenuItem("Logout");
logoutItem.Click += (s, e) => {
    this.Close();
    new frmLoginAccount().Show();
                                ToolStripMenuItem exitItem = new ToolStripMenuItem("Exit");
exitItem.Click += (s, e) => Application.Exit();
                                 fileMenu.DropDownItems.Add(logoutItem);
fileMenu.DropDownItems.Add(exitItem);
menu.Items.Add(fileMenu);
                                this.MainMenuStrip = menu;
this.Controls.Add(menu);
 00 % 🕝 🥝 🕑 No issues found 📗 👸 🔻 🤌
```

```
mespace CashierApplication
                    internal static class Program
                         [STAThread]
                              Application.EnableVisualStyles();
Application.SetCompatibleTextRenderingDefault(false);
Application.Run(new frmLoginAccount());
                   espace UserAccountNamespace
                          protected string username;
protected string password;
protected string full_name;
protected string department;
                               full_name = name;
department = dept;
username = uname;
password = pwd;
                         public Cashier(string name, string dept, string uname, string pwd)
| : base(name, dept, uname, pwd) { }
                             return username.Equals(uname) && password.Equals(pwd);
100 % - 🦃
                  No issues found
                         frmLoginAccount.cs frmLoginAccount.Designer.cs frmLoginAccount.cs [Design] Frogram.cs > X frmPurchaseDiscountedItem.cs frmPurchaseDi...em.cs [Design]
                         public override bool validateLogin(string uname, string pwd) {
                             return username.Equals(uname) && password.Equals(pwd):
                         public string WelcomeMessage => $"Welcome {full_name} of {department}";
                 mespace ItemNamespace
                         protected string item_name;
protected double item_price;
protected int item_quantity;
private double total_price;
                               item_name = name;
item_price = price;
item_quantity = quantity;
                         private double item_discount;
private double discounted_price;
private double payment_amount;
private double change;
                         : base(name, price, quantity)
{

itam discount = discount + A Al-
```

```
C CashierApplication
                                                                                                                                            item_quantity = quantity;
                     4 references
public abstract double getTotalPrice();
                     4 references
public virtual void setPayment(double amount)
f
 O.
                                                                                                                                                                                                                      total_price = getTotalPrice();
                     private double item_discount;
private double discounted_price;
private double payment_amount;
private double change;
                     item_discount = discount * 0.01;
                         discounted_price = item_price - (item_price * item_discount);
return discounted_price * item_quantity;
                         base.setPayment(amount);
payment_amount = amount;
change = payment_amount - getTotalPrice();
                         return change;
              No issues found
                                                                                                                                                                                                Ln: 22 Ch: 37 SPC CRLF
Error List Output
                                                                    esigner.cs frmLoginAccount.cs [Des
```



```
Source code:
Program.cs:
namespace CashierApplication
 internal static class Program
 {
   [STAThread]
   static void Main()
     Application.EnableVisualStyles();
     Application.SetCompatibleTextRenderingDefault(false);
     Application.Run(new frmLoginAccount());
   }
 }
}
namespace UserAccountNamespace
{
 public abstract class UserAccount
 {
   protected string username;
   protected string password;
   protected string full_name;
   protected string department;
   public UserAccount(string name, string dept, string uname, string pwd)
```

```
{
     full_name = name;
     department = dept;
     username = uname;
     password = pwd;
   }
   public abstract bool validateLogin(string uname, string pwd);
 }
 public class Cashier: UserAccount
   public Cashier(string name, string dept, string uname, string pwd)
     : base(name, dept, uname, pwd) { }
   public override bool validateLogin(string uname, string pwd)
   {
     return username. Equals (uname) && password. Equals (pwd);
   }
   public string WelcomeMessage => $"Welcome {full_name} of {department}";
 }
}
namespace ItemNamespace
{
```

```
public abstract class Item
  protected string item_name;
  protected double item_price;
  protected int item_quantity;
  private double total_price;
  public Item(string name, double price, int quantity)
 {
   item_name = name;
   item_price = price;
   item_quantity = quantity;
 }
  public abstract double getTotalPrice();
  public virtual void setPayment(double amount)
 {
   total_price = getTotalPrice();
 }
}
public class DiscountedItem: Item
{
  private double item_discount;
  private double discounted_price;
```

```
private double payment_amount;
private double change;
public DiscountedItem(string name, double price, int quantity, double discount)
  : base(name, price, quantity)
{
  item_discount = discount * 0.01;
}
public override double getTotalPrice()
{
  discounted_price = item_price - (item_price * item_discount);
  return discounted_price * item_quantity;
}
public override void setPayment(double amount)
{
  base.setPayment(amount);
  payment_amount = amount;
  change = payment_amount - getTotalPrice();
}
public double getChange()
  return change;
}
```

```
}
}
frmPurchaseDiscountedItem.cs:
using ItemNamespace;
using static System.Windows.Forms.VisualStyles.VisualStyleElement.Tab;
namespace CashierApplication
{
 public partial class frmPurchaseDiscountedItem: Form
 {
   public frmPurchaseDiscountedItem()
   {
     InitializeComponent();
   }
   private void Form1_Load(object sender, EventArgs e)
   {
   }
   private void Compute_Click(object sender, EventArgs e)
   {
     try
     {
       DiscountedItem item = new DiscountedItem(
         Item.Text,
         Convert.ToDouble(Price.Text),
```

```
Convert.ToInt32(Quantity.Text),
     Convert.ToDouble(Discount.Text));
   Total.Text = item.getTotalPrice().ToString("0.00");
 }
 catch (Exception ex)
 {
   MessageBox.Show($"Error: {ex.Message}");
 }
}
private void Submit_Click(object sender, EventArgs e)
{
 try
 {
   DiscountedItem item = new DiscountedItem(
     Item.Text,
     Convert.ToDouble(Price.Text),
     Convert.ToInt32(Quantity.Text),
     Convert.ToDouble(Discount.Text));
   item.setPayment(Convert.ToDouble(Payment.Text));
   Change.Text = item.getChange().ToString("0.00");
 }
 catch (Exception ex)
 {
   MessageBox.Show($"Error: {ex.Message}");
```

```
}
 }
  private void fileToolStripMenuItem_Click(object sender, EventArgs e)
 {
   MenuStrip menu = new MenuStrip();
   ToolStripMenuItem fileMenu = new ToolStripMenuItem("File");
   ToolStripMenuItem logoutItem = new ToolStripMenuItem("Logout");
   logoutItem.Click += (s, e) => {
     this.Close();
     new frmLoginAccount().Show();
   };
   ToolStripMenuItem exitItem = new ToolStripMenuItem("Exit");
   exitItem.Click += (s, e) => Application.Exit();
   fileMenu.DropDownItems.Add(logoutItem);
   fileMenu.DropDownItems.Add(exitItem);
   menu.Items.Add(fileMenu);
   this.MainMenuStrip = menu;
   this.Controls.Add(menu);
 }
}
```

}

```
frmLoginAccount.cs:
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System. Data;
using System. Drawing;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using UserAccountNamespace;
namespace CashierApplication
{
 public partial class frmLoginAccount : Form
 {
   private readonly Cashier cashier = new Cashier(
   "Claris Castro",
   "Finance",
   "cashier101",
   "st1@password");
   public frmLoginAccount()
   {
     InitializeComponent();
     cashier = new Cashier(
```

```
"Claris Castro",
    "Finance",
   "cashier101",
   "st1@password");
}
private void textBox1_TextChanged(object sender, EventArgs e)
{
}
private void button1_Click(object sender, EventArgs e)
{
 if (cashier.validateLogin(Username.Text, Password.Text))
 {
   MessageBox.Show(cashier.WelcomeMessage, "Login Success");
   this.Hide();
   new frmPurchaseDiscountedItem().Show();
 }
  else
 {
   MessageBox.Show("Invalid credentials", "Login Failed");
 }
}
```

}