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CEIT-03-301P

YOUTUBE LINK: https://youtu.be/qDYPX8bGaQw

POINT OF SALE

LOGIN SCREENSHOT:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

class Login extends JFrame implements ActionListener {
    Container container = getContentPane();
    JLabel welcomeLabel = new JLabel("Welcome To Marahuyo Bookstore");
    JLabel usernameLabel = new JLabel("Username:");
    JLabel passwordLabel = new JLabel("Password:");
    final JTextField user = new JTextField();
    final JPasswordField pass = new JPasswordField();
    JButton loginButton = new JButton("LOGIN");
    JButton resetButton = new JButton("RESET");
    JButton j1 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\FINAL LOGO.png"));
    JButton j2 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\final slogan.png"));
    JCheckBox showPassword = new JCheckBox("Show Password");

    Login()
    {
        setLayout();
        setLocationAndSize();
        setFontsAndColors();
        addComponentsToContainer();
        addActionEvent();
    }

    public void setLayout()
    {
        container.setLayout(null);
        container.setVisible(true);
    }

    public void setLocationAndSize()
    {
        welcomeLabel.setBounds(30, 200, 700, 50);
        usernameLabel.setBounds(100, 275, 140, 50);
        user.setBounds(260, 275, 200, 40);
        passwordLabel.setBounds(100, 335, 140, 30);
        passwordLabel.setBounds(100, 335, 140, 30);
        pass.setBounds(260, 335, 200, 40);
        showPassword.setBounds(250, 380, 150, 30);
        loginButton.setBounds(190, 440, 140, 60);
        resetButton.setBounds(340, 440, 140, 60);
        j1.setBounds(250, 30, 200, 150);
        j2.setBounds(700, 0, 680, 570);
    }

    public void addComponentsToContainer()
    {
        container.add(welcomeLabel);
        container.add(usernameLabel);
        container.add(user);
        container.add(passwordLabel);
        container.add(pass);
        container.add(showPassword);
        container.add(loginButton);
        container.add(resetButton);
        container.add(j1);
        container.add(j2);
    }


    public void setFontsAndColors()
    {
        welcomeLabel.setFont(new Font("Arial", Font.BOLD, 40));
        Color c1 = new Color(241, 161, 97);
        welcomeLabel.setForeground(c1);

        usernameLabel.setBounds(100, 275, 140, 50);
        usernameLabel.setFont(new Font("Arial", Font.BOLD, 25));

        user.setBounds(260, 275, 200, 40);
        user.setFont(new Font("Arial", Font.BOLD, 25));

        passwordLabel.setBounds(100, 335, 140, 30);
        passwordLabel.setFont(new Font("Arial", Font.BOLD, 25));
```

```java
77
78        pass.setFont(new Font("Arial", Font.BOLD, 25));
79
80        showPassword.setBounds(255, 385, 160, 30);
81        showPassword.setFont(new Font("Arial", Font.BOLD, 15));
82        Color c2 = new Color(253,238,220);
83        showPassword.setBackground(c2);
84
85        loginButton.setFont(new Font("Arial", Font.BOLD, 25));
86        loginButton.setBackground(c1);
87        loginButton.setForeground(Color.white);
88
89        resetButton.setFont(new Font("Arial", Font.BOLD, 25));
90        resetButton.setBackground(c1);
91        resetButton.setForeground(Color.white);
92    }
93
94    public void addActionEvent()
95    {
96        loginButton.addActionListener(this);
97        resetButton.addActionListener(this);
98        showPassword.addActionListener(this);
99    }
100
101    int attempts = 1;
102
103    @Override
104    public void actionPerformed(ActionEvent e) {
105
106        boolean successLogin = true;
107
108        String userName = "Juanito";
109        String passWord = "abc123";
110
111        //Coding Part of LOGIN button
112
113        if (e.getSource() == loginButton)
114        {
115            do
```

```java
115            do
116            {
117
118                String username = user.getText();
119                String password = new String(pass.getPassword());
120
121                JFrame f;
122                f = new JFrame();
123
124                if (userName.equals(username) && passWord.equals(password))
125                {
126                    JOptionPane.showMessageDialog(f, "LOGIN SUCCESSFUL!");
127                    new Menu1();
128                }
129                else if (userName.equals(username) && (!(passWord.equals(password))) && attempts == 3)
130                {
131                    attempts++;
132                    JOptionPane.showMessageDialog(f, "You have reached that maximum number of attempts!");
133                    System.exit(0);
134                }
135                else if (!(userName.equals(username)) && (!(passWord.equals(password))) && attempts == 3)
136                {
137                    attempts++;
138                    JOptionPane.showMessageDialog(f, "You have reached the maximum number of attempts!");
139                    System.exit(0);
140                }
141                else
142                {
143                    JOptionPane.showMessageDialog(f, "LOGIN FAILED!  Attempt: " + attempts + "/3","Warning", JOptionPane.WARNING_MESSAGE);
144                    attempts++;
145                }
146
147            }
148            while (!successLogin);
149        }
150
151        //Coding Part of RESET button
152        if (e.getSource() == resetButton)
153        {
```

```
150
151        //Coding Part of RESET button
152        if (e.getSource() == resetButton)
153        {
154            user.setText("");
155            pass.setText("");
156        }
157
158        //Coding Part of showPassword JCheckBox
159        if (e.getSource() == showPassword)
160        {
161            if (showPassword.isSelected())
162            {
163                pass.setEchoChar((char) 0);
164            }
165            else
166            {
167                pass.setEchoChar('*');
168            }
169
170
171        }
172
173    }
174 }
175
176 public class MarahuyoBookstore {
177⊖    public static void main(String[] args)
178    {
179        Login frame = new Login();
180        frame.setTitle("MARAHUYO BOOKSTORE");
181        Color c3 = new Color(253,238,220);
182        frame.getContentPane().setBackground(c3);
183        frame.setSize(1390,570);
184        frame.setVisible(true);
185        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
186        frame.setResizable(false);
187    }
188 }
```

OUTPUT:
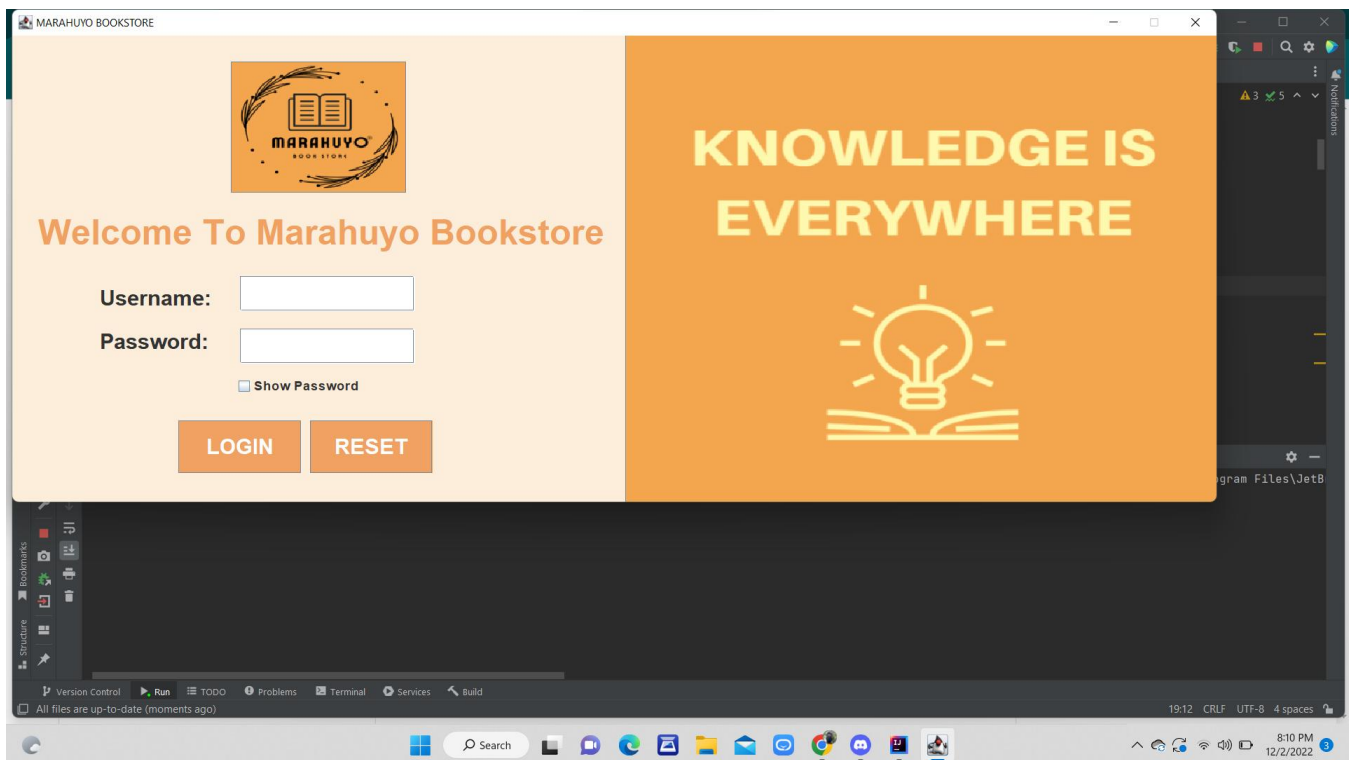
MAIN MENU SCREENSHOT:

```java
1  import javax.swing.*;
2  import java.awt.*;
3  import java.awt.event.*;
4
5  public class Menu1 implements ActionListener
6  {
7      private static JLabel labelMen;
8      private static JButton Menub1;
9      private static JButton Menub2;
10     private static JLabel background;
11
12     public  Menu1(){
13         JPanel panelMen = new JPanel();
14         JFrame frameMen = new JFrame();
15
16         frameMen.setSize(1165,480);
17         frameMen.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
18         frameMen.add(panelMen);
19         frameMen.setTitle("Main Menu");
20         frameMen.setLocationRelativeTo(null);
21         frameMen.setResizable(false);
22         frameMen.setVisible(true);
23
24         panelMen.setLayout(null);
25         panelMen.setBackground(new Color(253,238,220));
26
27         labelMen = new JLabel("Marahuyo Bookstore");
28         labelMen.setBounds(460,10,700,63);
29         labelMen.setFont(new Font("Arial", Font.BOLD, 60));
30         labelMen.setForeground(new Color(241, 161, 97));
31         panelMen.add(labelMen);
32
33         Menub1 = new JButton("BUY ITEMS");
34         Menub1.setBounds(680,250,150,45);
35         Menub1.addActionListener(this);
36         Color c1 = new Color(241, 161, 97);
37         Menub1.setFont(new Font("Arial", Font.BOLD, 15));
38         Menub1.setBackground(c1);
39         Menub1.setForeground(Color.white);
```

```java
28         labelMen.setBounds(460,10,700,63);
29         labelMen.setFont(new Font("Arial", Font.BOLD, 60));
30         labelMen.setForeground(new Color(241, 161, 97));
31         panelMen.add(labelMen);
32
33         Menub1 = new JButton("BUY ITEMS");
34         Menub1.setBounds(680,250,150,45);
35         Menub1.addActionListener(this);
36         Color c1 = new Color(241, 161, 97);
37         Menub1.setFont(new Font("Arial", Font.BOLD, 15));
38         Menub1.setBackground(c1);
39         Menub1.setForeground(Color.white);
40         panelMen.add(Menub1);
41
42         JButton img_1 = new JButton (new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\bookstore_1.jpg"));
43         img_1.setBounds(0, 0 , 360, 480);
44         panelMen.add(img_1);
45
46         JButton img_2 = new JButton (new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\Light Green Minimalist All New Variant  Emai
47         img_2.setBounds(361, 308 , 800, 150);
48         panelMen.add(img_2);
49
50
51         JButton img_3 = new JButton (new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\FINAL LOGO.png"));
52         img_3.setBounds(650, 80 , 200, 150);
53         panelMen.add(img_3);
54
55     }
56     public static void main (String[] args) {
57
58         Menu1 a = new Menu1();
59
60     }
61     @Override
62     public void actionPerformed(ActionEvent e) {
63         Details.main(null);
64
65     }
66 }
```

OUTPUT:



CUSTOMER DETAILS SCREENSHOT:

```java
1  import java.awt.Color;
2  import java.awt.Font;
3  import java.awt.event.ActionEvent;
4  import java.awt.event.ActionListener;
5  import javax.swing.*;
6
7  public class Details implements ActionListener {
8      private static JLabel label1;
9      private static JLabel label2;
10     private static JLabel label3;
11     private static JLabel label4;
12     private static JLabel label5;
13     private static JLabel label6;
14     private static JLabel label7;
15     private static JButton enter;
16     private static JTextField text1;
17     private static JTextField text2;
18     private static JTextField text3;
19     private static JTextField text4;
20     private static JTextField text5;
21     private static JComboBox combo1;
22
23     public Details(){
24         JPanel Panelc = new JPanel();
25         JFrame Framec = new JFrame();
26         String pay[] = {"Cash","Credit","Gcash"};
27
28         Framec.setSize(700,600);
29         Framec.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
30         Framec.setTitle("Customer Details");
31         Framec.setVisible(true);
32         Framec.setLocationRelativeTo(null);
33         Framec.setResizable(true);
34         Framec.add(Panelc);
35         Panelc.setLayout(null);
36         Panelc.setBackground(new Color(253,238,220));
37
38         label1 = new JLabel("Customer Details");
39         label1.setBounds(200,10,700,50);
```

```java
39        label1.setBounds(200,10,700,50);
40        label1.setFont(new Font("Arial", Font.BOLD, 30));
41        label1.setForeground(new Color(241, 161, 97));
42        Panelc.add(label1);
43
44        label2 = new JLabel("Customer Name:");
45        label2.setBounds(20,55,300,45);
46        label2.setFont(new Font("Arial", Font.BOLD, 16));
47        Panelc.add(label2);
48
49        text1 = new JTextField();
50        text1.setBounds(180,65,260,25);
51        Panelc.add(text1);
52
53        label3 = new JLabel("Address:");
54        label3.setBounds(20,100,300,45);
55        label3.setFont(new Font("Arial", Font.BOLD, 16));
56        Panelc.add(label3);
57
58        text2 = new JTextField();
59        text2.setBounds(180,110,260,25);
60        Panelc.add(text2);
61
62        label4 = new JLabel("Contact No.:");
63        label4.setBounds(20,150,300,45);
64        label4.setFont(new Font("Arial", Font.BOLD, 16));
65        Panelc.add(label4);
66
67        text3 = new JTextField();
68        text3.setBounds(180,160,260,25);
69        Panelc.add(text3);
70
71        label5 = new JLabel("Age:");
72        label5.setBounds(20,200,300,45);
73        label5.setFont(new Font("Arial", Font.BOLD, 16));
74        Panelc.add(label5);
75
76        text4 = new JTextField();
77        text4.setBounds(180,210,260,25);
```

```java
77        text4.setBounds(180,210,260,25);
78        Panelc.add(text4);
79
80        label6 = new JLabel("Date:");
81        label6.setBounds(20,250,300,45);
82        label6.setFont(new Font("Arial", Font.BOLD, 16));
83        Panelc.add(label6);
84
85        text5 = new JTextField();
86        text5.setBounds(180,260,260,25);
87        Panelc.add(text5);
88
89        label7 = new JLabel("Payment Method:");
90        label7.setBounds(20,300,300,45);
91        label7.setFont(new Font("Arial", Font.BOLD, 16));
92        Panelc.add(label7);
93
94        combo1 = new JComboBox(pay);
95        combo1.setBounds(180,310,260,25);
96        Panelc.add(combo1);
97
98
99        enter = new JButton("Enter");
100       enter.setBounds(190,380,300,45);
101       enter.addActionListener(this);
102       enter.setFont(new Font("Arial", Font.BOLD, 25));
103       Color c1 = new Color(241, 161, 97);
104       enter.setBackground(c1);
105       enter.setForeground(Color.white);
106       Panelc.add(enter);
107
108    }
109
110
111    public static void main(String[] args) {
112        Details i = new Details();
113
114    }
115
```
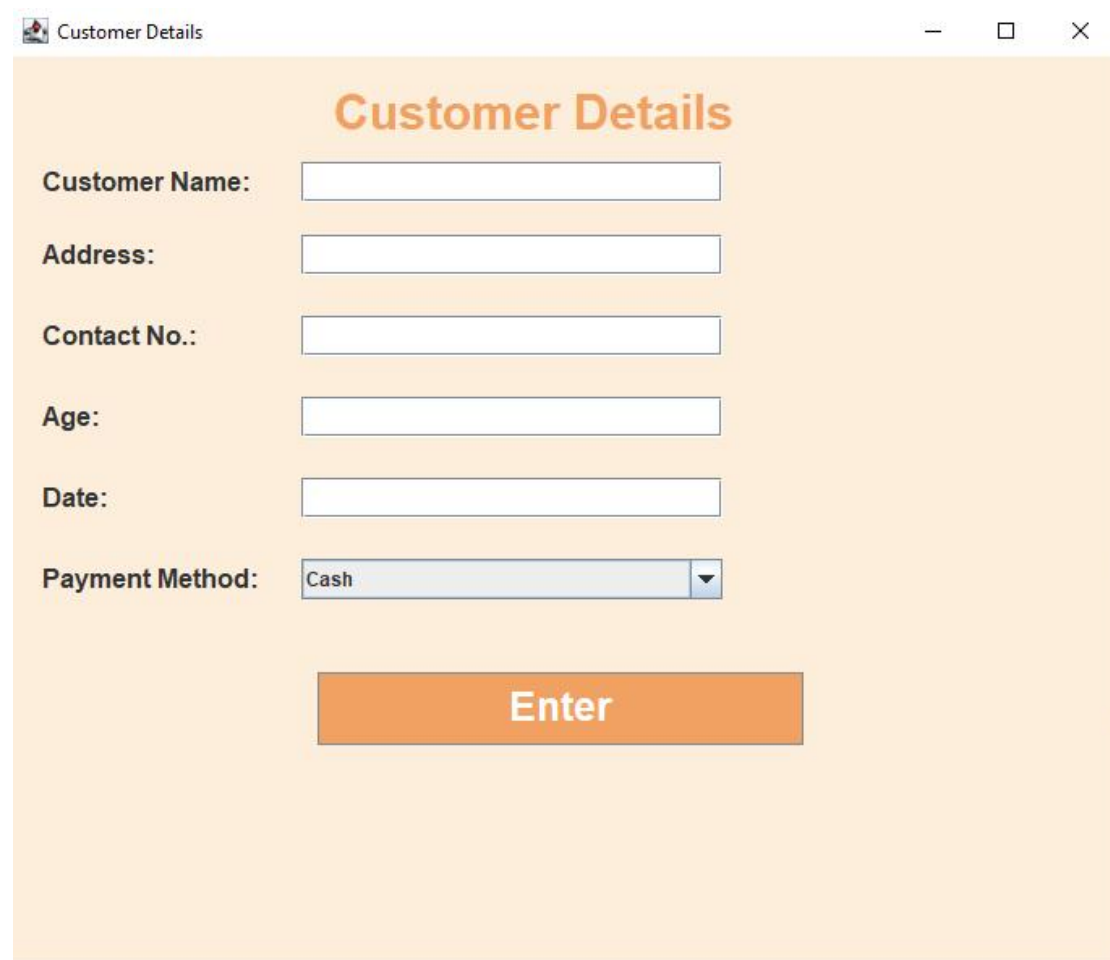
```
104        enter.setBackground(c1);
105        enter.setForeground(Color.white);
106        Panelc.add(enter);
107
108    }
109
110
111⊖    public static void main(String[] args) {
112        Details i = new Details();
113
114    }
115
116⊖    @Override
117    public void actionPerformed(ActionEvent e) {
118        String detail1 = text1.getText();
119        String detail2 = text2.getText();
120        String detail3 = text3.getText();
121        String detail4 = text4.getText();
122        String detail5 = text5.getText();
123        String detail6 = "Payment Method: " + combo1.getItemAt(combo1.getSelectedIndex());
124        String data = "          PRE-ORDER FORM \n\n"+"Name: " + detail1 + "\n\n" +"Address: " + detail2 + "\n\n" +"Contact No.: " + detail3 + "\n\n" + "Age: " + detail4 +
125            "\n\n" + "Date: " + detail5 + "\n\n" + detail6 ;
126
127
128        JOptionPane.showMessageDialog(null,data);
129
130        int opt = JOptionPane.showConfirmDialog(null, "Proceed to shop?","CONFIRMATION", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE );
131
132        if(opt == JOptionPane.YES_OPTION) {
133
134            BookStore.main(null);
135        } if (opt == JOptionPane.NO_OPTION) {
136
137            System.exit(0);
138        }
139
140    }
141
142 }
```

OUTPUT:

# Customer Details

**Customer Name:** Brian Michael

**Address:** 123 M

**Contact No.:** 0987

**Age:** 21

**Date:** 12/11

**Payment Method:** Cash

## Message

### PRE-ORDER FORM

**Name: Brian Michael**

**Address: 123 Manila Street**

**Contact No.: 09873234**

**Age: 21**

**Date: 12/11/2022**

**Payment Method: Cash**

OK

# Customer Details

**Customer Name:** Brian Michael

**Address:** 123 Manila Street

**Contact No.:** 09873234

**Age:** 21

**Date:** 12/11

**Payment Method:** Cash

**CONFIRMATION** ✕

? Proceed to shop?

[Yes] [No]

**Enter**

MENU SCREENSHOT:

```java
1  import javax.swing.*;
2  import java.awt.*;
3  import java.awt.event.ActionListener;
4  import java.awt.event.ActionEvent;
5  import java.text.DecimalFormat;
6
7  class Menu2 extends JFrame implements ActionListener
8  {
9
10     JLabel l1 = new JLabel("SCHOOL SUPPLIES:");
11     JLabel l2 = new JLabel("BOOKS:");
12     JLabel l3 = new JLabel("NONFICTION BOOKS:");
13     JLabel l4 = new JLabel("ART MATERIALS:");
14
15     JCheckBox cb1 = new JCheckBox("PENS(ANY COLOR) - Php 10");
16     JCheckBox cb2 = new JCheckBox("PENCILS - Php 10");
17     JCheckBox cb3 = new JCheckBox("ERASERS - Php 19");
18     JCheckBox cb4 = new JCheckBox("FILING AND STORAGE - Php 20");
19     JCheckBox cb5 = new JCheckBox("PAPERS - Php 25/SET");
20     JCheckBox cb6 = new JCheckBox("FICTION BOOKS (ANY) - Php 500");
21     JCheckBox cb7 = new JCheckBox("NON-FICTION BOOKS (ANY) - Php 500");
22     JCheckBox cb15 = new JCheckBox("CANVAS- Php 200");
23     JCheckBox cb8 = new JCheckBox("SKETCH PAD - Php 180");
24     JCheckBox cb9 = new JCheckBox("PAINT/COLOR MATERIALS - Php 100/SET");
25
26
27     JLabel l5 = new JLabel("Product ID: SS001");
28     JLabel l6 = new JLabel("Product ID: SS002");
29     JLabel l7 = new JLabel("Product ID: SS003");
30     JLabel l8 = new JLabel("Product ID: SS004");
31     JLabel l9 = new JLabel("Product ID: SS005");
32     JLabel l10 = new JLabel("Product ID: BK001");
33     JLabel l11 = new JLabel("Product ID: BK002");
34     JLabel l12 = new JLabel("Product ID: AM001");
35     JLabel l13 = new JLabel("Product ID: AM002");
36     JLabel l14 = new JLabel("Product ID: AM003");
37
38
39     JButton b = new JButton("Order");
```

```java
39     JButton b = new JButton("Order");
40     JButton p1 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\pens.png"));
41     JButton p2 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\pencils.png"));
42     JButton p3 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\erasers.png"));
43     JButton p4 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\filing and storage.png"));
44     JButton p5 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\PAPER.png"));
45     JButton p6 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\fiction (2).png"));
46     JButton p7 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\nonfiction.png"));
47     JButton p8 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\canvas.png"));
48     JButton p9 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\sketchpad.png"));
49     JButton p10 = new JButton(new ImageIcon("C:\\Users\\Juanito\\Desktop\\Acads\\Advanced Programming\\MENU PROGRAM\\paintmaterial.png"));
50     String color[]={"red", "blue", "green", "black"};
51     String type[]={"graphite", "charcoal"};
52     String type1[]={"vinyl", "rubber", "gum eraser", "sand eraser"};
53     String type2[]={"long folder", "short folder", "long envelope", "short envelope", "mini bookshelf", "plastic envelope"};
54     String type3[]={"short bond paper", "colored paper", "oslo paper", "long bond paper", "yellow pad", "intermediate pad", "notebook"};
55     String type4[]={"Fable", "Fairy Tale",
56              "Fantasy",
57              "Folklore",
58              "Horror",
59              "Humor",
60              "Legend",
61              "Mystery",
62              "Mythology",
63              "Science Fiction",
64              "Short Story",
65              "Tall Tale"};
66     String type5[]={"Biography",
67              "Elementary Education",
68              "JHS Education",
69              "SHS Education",
70              "Tertiary Education",
71              "Autobiography",
72              "Novel",
73              "World History",
74              "Phillipine History"};
75     String type6[]= {"Universal-10x8","Universal-20x16","Oil-10x8","Oil-20x16"};
76     String type7[]= {"7x10","9x12","11x14","18x24","24x36"};
77     String type8[]= {"Paint-Red","Paint-Yellow","Paint-Blue","Paint-Black","Paint-White","Paint-Assorted", "Color Pencil-Assorted",
```

```java
        String type8[]= {"Paint-Red","Paint-Yellow","Paint-Blue","Paint-Black","Paint-White","Paint-Assorted", "Color Pencil-Assorted",
                "Color Pencil-Red","Color Pencil-Yellow","Color Pencil-Blue","Color Pencil-Black","Color Pencil-White"};

        JTextField tf1=new JTextField();
        JTextField tf2=new JTextField();
        JTextField tf3=new JTextField();
        JTextField tf4=new JTextField();
        JTextField tf5=new JTextField();
        JTextField tf6=new JTextField();
        JTextField tf7=new JTextField();
        JTextField tf8=new JTextField();
        JTextField tf9=new JTextField();
        JTextField tf10=new JTextField();
        JLabel t1 = new JLabel("Color: ");
        JLabel t2 = new JLabel("Type: ");
        JLabel t3 = new JLabel("Type: ");
        JLabel t4 = new JLabel("Type: ");
        JLabel t5 = new JLabel("Type: ");
        JLabel t6 = new JLabel("Type: ");
        JLabel t7 = new JLabel("Type: ");
        JLabel t8 = new JLabel("Type/Size: ");
        JLabel t9 = new JLabel("Size: ");
        JLabel t10 = new JLabel("Type/Color: ");
        JLabel q1 = new JLabel("Quantity: ");
        JLabel q2 = new JLabel("Quantity: ");
        JLabel q3 = new JLabel("Quantity: ");
        JLabel q4 = new JLabel("Quantity: ");
        JLabel q5 = new JLabel("Quantity: ");
        JLabel q6 = new JLabel("Quantity: ");
        JLabel q7 = new JLabel("Quantity: ");
        JLabel q8 = new JLabel("Quantity: ");
        JLabel q9 = new JLabel("Quantity: ");
        JLabel q10 = new JLabel("Quantity: ");

        final JComboBox combobox1 = new JComboBox(color);
        final JComboBox combobox2 = new JComboBox(type);
        final JComboBox combobox3 = new JComboBox(type1);
        final JComboBox combobox4 = new JComboBox(type2);
        final JComboBox combobox5 = new JComboBox(type3);


        final JComboBox combobox5 = new JComboBox(type3);
        final JComboBox combobox6 = new JComboBox(type4);
        final JComboBox combobox7 = new JComboBox(type5);
        final JComboBox combobox8 = new JComboBox(type6);
        final JComboBox combobox9 = new JComboBox(type7);
        final JComboBox combobox10 = new JComboBox(type8);


        public Menu2()
        {
            setLayout();
            setLocationAndSize();
            setColorAndFonts();
            components();
            addActionEvent();
        }

        public void setLayout()
        {
            setLayout(null);
            setVisible(true);
        }

        public void setLocationAndSize()
        {
            l1.setBounds(550,0,700,60);

            cb1.setBounds(30,45,190,20);
            p1.setBounds(55, 70, 150, 150);
            combobox1.setBounds(90, 230, 90, 20);
            t1.setBounds(30, 230, 90, 20);
            tf1.setBounds(90,260,150,20);
            q1.setBounds(30, 260, 150, 20);
            l5.setBounds(30, 290, 150, 20);

            cb2.setBounds(290,45,150,20);
            p2.setBounds(315,70,150,150);
            combobox2.setBounds(350,230, 90, 20);
            t2.setBounds(290, 230, 90, 20);
```

```java
153            t2.setBounds(290, 230, 90, 20);
154            tf2.setBounds(350,260,150,20);
155            q2.setBounds(290, 260, 150, 20);
156            l6.setBounds(290, 290, 150, 20);
157
158            cb3.setBounds(550,45,150,20);
159            p3.setBounds(575,70,150,150);
160            combobox3.setBounds(610,230, 120, 20);
161            t3.setBounds(550, 230, 90, 20);
162            tf3.setBounds(610,260,150,20);
163            q3.setBounds(550, 260, 150, 20);
164            l7.setBounds(550, 290, 150, 20);
165
166            cb4.setBounds(810,45,210,20);
167            p4.setBounds(835,70,150,150);
168            combobox4.setBounds(870,230, 120, 20);
169            t4.setBounds(810, 230, 90, 20);
170            tf4.setBounds(870,260,150,20);
171            q4.setBounds(810, 260, 150, 20);
172            l8.setBounds(810, 290, 150, 20);
173
174            cb5.setBounds(1070,45,150,20);
175            p5.setBounds(1095,70,150,150);
176            combobox5.setBounds(1130,230, 140, 20);
177            t5.setBounds(1070, 230, 90, 20);
178            tf5.setBounds(1130,260,150,20);
179            q5.setBounds(1070, 260, 150, 20);
180            l9.setBounds(1070, 290, 150, 20);
181
182            l2.setBounds(10,310,700,60);
183
184            cb6.setBounds(30,355,250,20);
185            p6.setBounds(55,380,150,150);
186            combobox6.setBounds(90,540, 120, 20);
187            t6.setBounds(30, 540, 90, 20);
188            tf6.setBounds(90,570,150,20);
189            q6.setBounds(30, 570, 150, 20);
190            l10.setBounds(30, 600, 150, 20);
191
191
192            cb7.setBounds(290,355,250,20);
193            p7.setBounds(315,380,150,150);
194            combobox7.setBounds(350,540, 148, 20);
195            t7.setBounds(290, 540, 90, 20);
196            tf7.setBounds(350,570,150,20);
197            q7.setBounds(290, 570, 150, 20);
198            l11.setBounds(290, 600, 150, 20);
199
200            l4.setBounds(550,310,700,60);
201            p8.setBounds(575,380 ,150 ,150);
202            cb15.setBounds(550,355,180,20);
203            combobox8.setBounds(610,540, 120, 20);
204            t8.setBounds(530, 540, 90, 20);
205            tf8.setBounds(610, 570,150,20);
206            q8.setBounds(530, 570, 150, 20);
207            l12.setBounds(530, 600, 150, 20);
208
209            cb8.setBounds(810,355,180,20);
210            p9.setBounds(835,380,150,150);
211            combobox9.setBounds(870,540, 120, 20);
212            t9.setBounds(810, 540, 90, 20);
213            tf9.setBounds(870, 570,150,20);
214            q9.setBounds(810, 570, 150, 20);
215            l13.setBounds(810, 600, 150, 20);
216
217            cb9.setBounds(1050,355,285,20);
218            p10.setBounds(1095,380,150,150);
219            combobox10.setBounds(1140,540, 150, 20);
220            t10.setBounds(1070, 540, 90, 20);
221            tf10.setBounds(1140, 570,150,20);
222            q10.setBounds(1070, 570, 150, 20);
223            l14.setBounds(1070, 600, 150, 20);
224
225            b.setBounds(600,680,80,30);
226        }
227
228        public void setColorAndFonts()
229        {
```

```java
    {
        Color c1 = new Color(241, 161, 97);
        l1.setFont(new Font("Arial", Font.BOLD, 25));
        l1.setForeground(c1);
        l2.setFont(new Font("Arial", Font.BOLD, 25));
        l2.setForeground(c1);
        l4.setFont(new Font("Arial", Font.BOLD, 25));
        l4.setForeground(c1);

        b.setBackground(c1);
        b.setForeground(Color.white);
        b.setFont(new Font("Arial", Font.BOLD, 15));
    }

    public void components()
    {
        add(l1);
        add(l2);
        add(l4);
        add(cb1);
        add(cb2);
        add(cb3);
        add(cb4);
        add(cb5);

        add(cb6);
        add(cb7);
        add(cb15);
        add(cb8);
        add(cb9);

        add(b);
        add(p1);
        add(p2);
        add(p3);
        add(p4);
        add(p5);
        add(p6);
        add(p7);
        add(p7);
        add(p8);
        add(p9);
        add(p10);
        add(combobox1);
        add(combobox2);
        add(combobox3);
        add(combobox4);
        add(combobox5);
        add(combobox6);
        add(combobox7);
        add(combobox8);
        add(combobox9);
        add(combobox10);
        add(tf1);
        add(tf2);
        add(tf3);
        add(tf4);
        add(tf5);
        add(tf6);
        add(tf7);
        add(tf8);
        add(tf9);
        add(tf10);
        add(q1);
        add(q2);
        add(q3);
        add(q4);
        add(q5);
        add(q6);
        add(q7);
        add(q8);
        add(q9);
        add(q10);

        add(t1);
        add(t2);
        add(t3);
        add(t4);
```

```java
305            add(t4);
306            add(t5);
307            add(t6);
308            add(t7);
309            add(t8);
310            add(t9);
311            add(t10);
312
313            add(l5);
314            add(l6);
315            add(l7);
316            add(l8);
317            add(l9);
318            add(l10);
319            add(l11);
320            add(l12);
321            add(l13);
322            add(l14);
323        }
324
325        public void addActionEvent()
326        {
327            b.addActionListener(this);
328        }
329
330        @Override
331        public void actionPerformed(ActionEvent e)
332        {
333            float amount = 0;
334            String msg = "                                                                    MARAHUYO BOOKSTORE\n"
335                +"Item Code/Reference        Quantity                        Item Description"
336                + "                        Item Color/Type                Price            Amount"+"            \n";
337
338            if(cb1.isSelected())
339            {
340                String s1=tf1.getText();
341                int a =Integer.parseInt(s1);
342                amount+=10*a;
343                double am1 = 10*a;
```

```java
343                double am1 = 10*a;
344                msg+="SS001                                        " + a + "                        "+ "        PENS                    "+am1+"\n";
345                    + combobox1.getItemAt(combobox1.getSelectedIndex()) + "                                10.00                    "+am1+"\n";
346
347            }
348            if(cb2.isSelected())
349            {
350                String s2=tf2.getText();
351                int b=Integer.parseInt(s2);
352                amount+=10*b;
353                double am2 = 10*b;
354                msg+="SS002                                        " + b + "                        "+ "        PENCILS
355                    + combobox2.getItemAt(combobox2.getSelectedIndex()) + "                        10.00                "+am2+"\n";
356
357            }
358            if(cb3.isSelected())
359            {
360                String s3=tf3.getText();
361                int c=Integer.parseInt(s3);
362                amount+=19*c;
363                double am3 = 19*c;
364                msg+="SS003                                        " + c + "                        "+ "        ERASERS                                "
365                    + combobox3.getItemAt(combobox3.getSelectedIndex()) + "                        19.00                "+am3+"\n";
366            }
367            if(cb4.isSelected())
368            {
369                String s4=tf4.getText();
370                int d=Integer.parseInt(s4);
371                amount+=20*d;
372                double am4 = 20*d;
373                msg+="SS004                                        " + d + "                        "+ "        FILING AND STORAGE                        "
374                    + combobox4.getItemAt(combobox4.getSelectedIndex()) + "                        20.00                "+am4+"\n";
375            }
376            if(cb5.isSelected())
377            {
378                String s5=tf5.getText();
379                int f=Integer.parseInt(s5);
380                amount+=25*f;
381                double am5 = 25*f;
```

```
381            double am5 = 25*f;
382            msg+="SS005                                          " + f + "                              "+ "        PAPERS
383                + combobox5.getItemAt(combobox5.getSelectedIndex()) + "                 25.00                    "+am5+"\n";
384        }
385
386        if(cb6.isSelected())
387        {
388            String s6=tf6.getText();
389            int g=Integer.parseInt(s6);
390            amount+=500*g;
391            double am6 = 500*g;
392            msg+="BK001                                          " + g + "                              "+ "        FICTION BOOKS                                      "
393                + combobox6.getItemAt(combobox6.getSelectedIndex()) + "                 500.00                    "+am6+"\n";
394        }
395
396
397        if(cb7.isSelected())
398        {
399            String s7=tf7.getText();
400            int h=Integer.parseInt(s7);
401            amount+=500*h;
402            double am7 = 500*h;
403            msg+="BK002                                          " + h + "                              "+ "        NON-FICTION BOOKS                                  "
404                + combobox7.getItemAt(combobox7.getSelectedIndex()) + "                 500.00                    "+am7+"\n";
405        }
406
407        if(cb15.isSelected())
408        {
409            String s8=tf8.getText();
410            int i=Integer.parseInt(s8);
411            amount+=200*i;
412            double am8 = 200*i;
413            msg+="AM001                                          " + i + "                              "+ "        CANVAS
414                + combobox8.getItemAt(combobox8.getSelectedIndex()) + "                 200.00                    "+am8+"\n";
415        }
416        if(cb8.isSelected())
417        {
418            String s9=tf9.getText();
419            int j=Integer.parseInt(s9);
```

```
419            int j=Integer.parseInt(s9);
420            amount+=180*j;
421            double am9 = 180*j;
422            msg+="AM002                                      " + j + "                              "+ "        SKETCHPAD
423                + combobox9.getItemAt(combobox9.getSelectedIndex()) + "                 180.00                        "+am9+"\n";
424        }
425        if(cb9.isSelected())
426        {
427            String s10=tf10.getText();
428            int k=Integer.parseInt(s10);
429            amount+=100*k;
430            double am10 = 100*k;
431            msg+="AM003                                      " + k + "                              "+ "        PAINT/COLOR MATERIALS                          "
432                + combobox10.getItemAt(combobox10.getSelectedIndex()) + "                 100.00                        "+am10+"\n";
433        }
434
435        DecimalFormat df = new DecimalFormat("#.##");
436
437
438        msg+= "--------------------------------------------------------------------------------------------------------------
439        double vat = 0.12*amount;
440        double total_amount = amount + vat;
441        JOptionPane.showMessageDialog(this, msg+"Total Amount: " + amount +"\nVAT: " +df.format(vat)+ "\nGrand Total Amount: " +df.format(total_amount));
442
443        String paid_amount = JOptionPane.showInputDialog(this, "Enter Amount Paid: ");
444        double p = Double.parseDouble(paid_amount);
445
446        double pay = 0.00;
447
448
449
450
451        if (p>total_amount)
452        {
453            pay = p-total_amount;
454            JOptionPane.showMessageDialog(this, "Your change is: " + df.format(pay));
455        }
456
457        else if (p==total_amount)
```

```java
            else if (p==total_amount)
            {
                    pay = p-total_amount;
                JOptionPane.showMessageDialog(this, "Your change is: " + df.format(pay));
            }

            if (p<total_amount)
            {
                pay = p-total_amount;
                JOptionPane.showMessageDialog(this, "Please pay a right amount. ");
                System.exit(0);
            }


            msg+= "-------------------------------------------------------------------------------------

            JOptionPane.showMessageDialog(this, msg+"Total Amount: " + amount +
                    "\nVAT: " +df.format(vat)+ "\nGrand Total Amount: " +df.format(total_amount)+"\nAmount Paid: "+ df.format(p) +
                    "\nChange: "+ df.format(pay));


            int response = JOptionPane.showConfirmDialog(this, "Do you want to order again?","CONFIRMATION", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE );

            if(response == JOptionPane.YES_OPTION)
            {
                tf1.setText("");
                tf2.setText("");
                tf3.setText("");
                tf4.setText("");
                tf5.setText("");
                tf6.setText("");
                tf7.setText("");
                tf8.setText("");
                tf9.setText("");
                tf10.setText("");

                cb1.setSelected(false);
                cb2.setSelected(false);


                cb2.setSelected(false);
                cb3.setSelected(false);
                cb4.setSelected(false);
                cb5.setSelected(false);
                cb6.setSelected(false);
                cb7.setSelected(false);
                cb15.setSelected(false);
                cb8.setSelected(false);
                cb9.setSelected(false);
            }
            if(response == JOptionPane.NO_OPTION)
            {
                String message = "Thanks for ordering. Hope you come back next time!";
                JOptionPane.showMessageDialog(this, message);
                this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                System.exit(0);
            }

        }
}

public class BookStore {
    public static void main(String[] args) {

        Menu2 menu2 = new Menu2();

        menu2.setTitle("Products");
        Color c3 = new Color(253, 238, 220);
        menu2.getContentPane().setBackground(c3);
        menu2.setSize(1350, 800);
        menu2.setVisible(true);
        menu2.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        menu2.setLocationRelativeTo(null);
        menu2.setResizable(false);



    }
}
```

OUTPUT:



Products

SCHOOL SUPPLIES:

☐ PENS(ANY COLOR) - Php 10    ☐ PENCILS - Php 10    ☐ ERASERS - Php 19    ☐ FILING AND STORAGE - Php 20    ☐ PAPERS - Php 25/SET

Color: red ▼          Type: graphite ▼          Type: vinyl ▼          Type: long folder ▼          Type: short bond paper ▼

Quantity: [_____]    Quantity: [_____]    Quantity: [_____]    Quantity: [_____]    Quantity: [_____]

Product ID: SS001    Product ID: SS002    Product ID: SS003    Product ID: SS004    Product ID: SS005

BOOKS:                          ART MATERIALS:

☐ FICTION BOOKS (ANY) - Php 500    ☐ NON-FICTION BOOKS (ANY) - Php 500    ☐ CANVAS- Php 200    ☐ SKETCH PAD - Php 180    ☐ PAINT/COLOR MATERIALS - Php 100/SET

Type: Fable ▼          Type: Biography ▼          Type/Size: Universal-10x8 ▼          Size: 7x10 ▼          Type/Color: Paint-Red ▼

Quantity: [_____]    Quantity: [_____]    Quantity: [_____]    Quantity: [_____]    Quantity: [_____]

Product ID: BK001    Product ID: BK002    Product ID: AM001    Product ID: AM002    Product ID: AM003
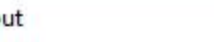
[ Order ]

---

Message

MARAHUYO BOOKSTORE

| Item Code/Reference | Quantity | Item Description | Item Color/Type | Price | Amount |
|---|---|---|---|---|---|
| SS001 | 2 | PENS | red | 10.00 | 20.0 |
| AM001 | 2 | CANVAS | Oil-10x8 | 200.00 | 400.0 |

----------------------------------------------------------------------------

Total Amount: 420.0
VAT: 50.4
Grand Total Amount: 470.4

[ OK ]

---

Input

? Enter Amount Paid:

[1000]

[ OK ]   [ Cancel ]

---

Message

ℹ Your change is: 529.6

[ OK ]

## Message

**MARAHUYO BOOKSTORE**

| Item Code/Reference | Quantity | Item Description | Item Color/Type | Price | Amount |
|---|---|---|---|---|---|
| SS001 | 2 | PENS | red | 10.00 | 20.0 |
| AM001 | 2 | CANVAS | Oil-10x8 | 200.00 | 400.0 |

------------------------------------------------------------------------------------------------------------

------------------------------------------------------------------------------------------------------------

Total Amount: 420.0
VAT: 50.4
Grand Total Amount: 470.4
Amount Paid: 1000
Change: 529.6

[ OK ]

## CONFIRMATION ✕

**? Do you want to order again?**

[ Yes ]  [ No ]

## Message ✕

**MARAHUYO BOOKSTORE**

| Item Code/Reference | Quantity | Item Description | Item Color/Type | Price | Amount |
|---|---|---|---|---|---|
| SS001 | 2 | PENS | red | 10.00 | 20.0 |

------------------------------------------------------------------------------------------------------------

Total Amount: 20.0
VAT: 2.4
Grand Total Amount: 22.4

[ OK ]

## Input ✕

**? Enter Amount Paid:**

10

[ OK ]  [ Cancel ]

## Message ✕

**i Please pay a right amount.**

[ OK ]