

```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Windows.Forms;
9
10 /*
11  * Homework# 2: Michael Banks
12  * This form program determines if the user is a Vampire.
13  * When the user clicks Apply, show a message box telling them if they can be a Vampire.
14  */
15
16 namespace Vampire_Form
17 {
18     public partial class Form1 : Form
19     {
20         TextBox txtUser;
21         Button btnApply, btnClear, btnExit;
22         Label lblName, lblTitle, lblSleep, lblLike;
23         Panel likePanel;
24         RadioButton rbDay, rbNight;
25         CheckBox cbLike1, cbLike2, cbLike3;
26
27     public Form1()
28     {
29         InitializeComponent();
30         Size = new Size(500, 300);
31
32         //labels
33         lblTitle = new Label();
34         lblTitle.Location = new Point(180, 20);
35         lblTitle.Text = "Vampire Application Form";
36         lblTitle.Size = new Size(lblTitle.PreferredWidth, lblTitle.PreferredHeight);
37         Controls.Add(lblTitle);
38
39         lblName = new Label();
40         lblName.Location = new Point(70, 70);
41         lblName.Text = "Name: ";
42         lblName.Size = new Size(75, 15);
43         Controls.Add(lblName);
44
45         lblSleep = new Label();
46         lblSleep.Location = new Point(50, 120);
47         lblSleep.Text = "Sleeps during: ";
48         lblSleep.Size = new Size(120, 15);
49         Controls.Add(lblSleep);
50
51         lblLike = new Label();
52         lblLike.Location = new Point(70, 150);
53         lblLike.Text = "Like: ";
54         lblLike.Size = new Size(75, 15);
55         Controls.Add(lblLike);
56
57         //radio buttons
58         likePanel = new Panel();
59         likePanel.Location = new Point(500, 300);
60         likePanel.Controls.Add(rbDay);
61         likePanel.Controls.Add(rbNight);
62         Controls.Add(likePanel);
63
64         rbDay = new RadioButton();
65         rbDay.Location = new Point(190, 120);
66         rbDay.AutoSize = true;
```

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67         rbDay.Text = "Day";
68         rbDay.Checked = false;
69         Controls.Add(rbDay);
70
71         rbNight = new RadioButton();
72         rbNight.Location = new Point(270, 120);
73         rbNight.AutoSize = true;
74         rbNight.Text = "Night";
75         rbNight.Checked = false;
76         Controls.Add(rbNight);
77
78         //Checkboxes
79         cbLike1 = new CheckBox();
80         cbLike1.Location = new Point(150, 145);
81         cbLike1.Text = "Wooden Stakes";
82         cbLike1.Checked = false;
83         Controls.Add(cbLike1);
84
85         cbLike2 = new CheckBox();
86         cbLike2.Location = new Point(150, 168);
87         cbLike2.Text = "Mirrors";
88         cbLike2.Checked = false;
89         Controls.Add(cbLike2);
90
91         cbLike3 = new CheckBox();
92         cbLike3.Location = new Point(150, 191);
93         cbLike3.Text = "Dentists";
94         cbLike3.Checked = false;
95         Controls.Add(cbLike3);
96
97         //textboxes
98         txtUser = new TextBox();
99         txtUser.Location = new Point(150, 70);
100        txtUser.Size = new Size(200, 20);
101        Controls.Add(txtUser);
102
103        // buttons
104        btnApply = new Button();
105        btnApply.Location = new Point(100, 230);
106        btnApply.Text = "Apply";
107        Controls.Add(btnApply);
108
109        btnClear = new Button();
110        btnClear.Location = new Point(20, 230);
111        btnClear.Text = "Clear";
112        Controls.Add(btnClear);
113
114        btnExit = new Button();
115        btnExit.Location = new Point(180, 230);
116        btnExit.Text = "Exit";
117        Controls.Add(btnExit);
118
119        btnClear.Click += new EventHandler(btnClearHandler);
120        btnApply.Click += new EventHandler(btnApplyHandler);
121        btnExit.Click += new EventHandler(btnExit_Click);
122    }
123
124    void btnExit_Click(object sender, EventArgs e)
125    {
126        Application.Exit();
127    }
128
129    private void btnApplyHandler(object sender, EventArgs e)
130    {
131        //Algorithm
132    }
```

```
133         if (rbDay.Checked == true)
134         {
135             if (cbLike1.Checked == true || cbLike2.Checked == true || cbLike3.Checked == true)
136                 MessageBox.Show(txtUser.Text + " is a Vampire!");
137         }
138     else
139         MessageBox.Show(txtUser.Text + " is not likely a Vampire.");
140
141 }
142 private void btnClearHandler(object sender, EventArgs e)
143 {
144     //Clears Form
145     MessageBox.Show("Your Form Has Been Cleared.");
146     txtUser.Text = "";
147     cbLike1.Checked = false;
148     cbLike2.Checked = false;
149     cbLike3.Checked = false;
150     rbDay.Checked = false;
151     rbNight.Checked = false;
152
153 }
154 }
155 }
156
157
158
159
160
161
```

Vampire Application Form

Name:

Sleeps during: ☐ Day ☐ Night

Like: ☐ Wooden Stakes
☐ Mirrors
☐ Dentists