

```
1 using System;
2 using Microsoft.VisualBasic;
3 using SplashKitSDK;
4
5 namespace ShapeDrawer
6 {
7     public class Program
8     {
9         private enum ShapeKind
10        {
11            Rectangle,
12            Circle,
13            Line
14        }
15        public static void Main()
16        {
17            ShapeKind kindToAdd = ShapeKind.Circle;
18            Window window = new Window("Shape Drawer", 800, 600);
19            Drawing myDrawing;
20
21            myDrawing = new Drawing();
22
23            do
24            {
25                SplashKit.ProcessEvents();
26                SplashKit.ClearScreen();
27
28                if (SplashKit.KeyTyped(KeyCode.RKey))
29                {
30                    kindToAdd = ShapeKind.Rectangle;
31                }
32
33                if (SplashKit.KeyTyped(KeyCode.CKey))
34                {
35                    kindToAdd = ShapeKind.Circle;
36                }
37
38                if (SplashKit.KeyTyped(KeyCode.LKey))
39                {
40                    kindToAdd = ShapeKind.Line;
41                }
42
43                if (SplashKit.MouseClicked(MouseButton.LeftButton))
44                {
45                    Shape myShape;
46                    switch(kindToAdd)
47                    {
48                        case ShapeKind.Circle:
49                            myShape = new MyCircle();
```

```
50         break;
51
52         case ShapeKind.Line:
53             myShape = new MyLine();
54             break;
55
56         default:
57             myShape = new MyRectangle();
58             break;
59     }
60     myShape.X = SplashKit.MouseX();
61     myShape.Y = SplashKit.MouseY();
62
63     myDrawing.AddShape(myShape);
64 }
65
66 Point2D myPoint = new Point2D()
67 {
68     X = SplashKit.MouseX()
69     , Y = SplashKit.MouseY()
70 };
71
72 if (SplashKit.KeyTyped(KeyCode.SpaceKey))
73 {
74     myDrawing.Background = SplashKit.RandomColor();
75 }
76
77 if (SplashKit.MouseClicked(MouseButton.RightButton))
78 {
79     myDrawing.SelectShapesAt(myPoint);
80 }
81
82 if ((SplashKit.KeyTyped(KeyCode.DeleteKey)) |
83     (SplashKit.KeyTyped(KeyCode.BackspaceKey)))
84 {
85     foreach (Shape shape in myDrawing.SelectedShapes)
86     {
87         myDrawing.RemoveShape(shape);
88     }
89 }
90
91 if ((SplashKit.KeyTyped(KeyCode.SKey)))
92 {
93     myDrawing.Save("C:/Users/PC/Desktop/COS20007/
94     Week_5/5.3C/ShapeDrawer/TextDrawing.txt");
95 }
96
97 if ((SplashKit.KeyTyped(KeyCode.OKey)))
98 {
99     myDrawing.Open("C:/Users/PC/Desktop/COS20007/
100     Week_5/5.3C/ShapeDrawer/TextDrawing.txt");
101 }
```

```
97         try
98         {
99             myDrawing.Load("C:/Users/PC/Desktop/COS20007/
Week_5/5.3C/ShapeDrawer/TextDrawing.txt");
100        }
101        catch (Exception ex)
102        {
103            Console.Error.WriteLine("Error loading file: {0}",
ex.Message);
104        }
105    }
106
107    myDrawing.Draw();
108
109    SplashKit.RefreshScreen();
110 }
111 while (!window.CloseRequested);
112 }
113 }
114 }
115
```