

```
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         if ((SplashKit.KeyTyped(KeyCode.SKey)))
91 {
92             myDrawing.Save("C:/Users/PC/Desktop/COS20007/
93 Week_5/5.3C/ShapeDrawer/TextDrawing.txt");
94 }
95
96     if ((SplashKit.KeyTyped(KeyCode.OKey)))
97 {
```

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