```
using System;
using SplashKitSDK;
namespace ShapeDrawing
   public class Program
        private enum Shapekind
        {
            Rectangle,
            Circle,
            Line
        public static void Main()
            //Set window size and title
            Window window = new Window("ShapeDrawing_Task 5.3C", 800, 600);
            Drawing myDrawing = new Drawing();
            Shapekind kindToAdd = Shapekind.Circle; //Default shape to add
            //Main loop
            do
            {
                SplashKit.ProcessEvents();
                SplashKit.ClearScreen();
                //Change background color when space key is pressed
                if (SplashKit.KeyTyped(KeyCode.SpaceKey))
                    myDrawing.Background = SplashKit.RandomRGBColor(255);
                //When lift-clicked mouse, it will draw rectangle as the
                  default shape
                if (SplashKit.MouseClicked(MouseButton.LeftButton))
                    Shape newShape;
                    switch (kindToAdd)
                    {
                        case Shapekind.Circle:
                            newShape = new MyCircle();
                            newShape.X = SplashKit.MouseX();
                            newShape.Y = SplashKit.MouseY();
                            break;
                        case Shapekind.Line:
                            newShape = new MyLine();
                            newShape.X = SplashKit.MouseX();
                            newShape.Y = SplashKit.MouseY();
                            break;
                        default:
                            newShape = new MyRectangle();
```

```
newShape.X = SplashKit.MouseX();
            newShape.Y = SplashKit.MouseY();
            break;
    myDrawing.AddShape(newShape);
}
//Change to draw rectangle if press R key
if (SplashKit.KeyTyped(KeyCode.RKey))
{
    kindToAdd = Shapekind.Rectangle;
//Change to draw crcle if press C key
if (SplashKit.KeyTyped(KeyCode.CKey))
{
    kindToAdd = Shapekind.Circle;
//Change to draw line if press L key
if (SplashKit.KeyTyped(KeyCode.LKey))
{
    kindToAdd = Shapekind.Line;
//Displat border for all shapes with right-clicked mouse
if (SplashKit.MouseClicked(MouseButton.RightButton))
{
    myDrawing.SelectShapesAt(SplashKit.MousePosition());
//Changing colors of rectangles when pressing B key
if (SplashKit.KeyTyped(KeyCode.BKey))
{
    foreach (Shape s in myDrawing.Shapes)
        s.Color = SplashKit.RandomRGBColor(255);
//Delete selected shapes when pressing Delete or Backspace key
if (SplashKit.KeyTyped(KeyCode.DeleteKey) || SplashKit.KeyTyped →
  (KeyCode.BackspaceKey))
{
    foreach (Shape s in myDrawing.SelectedShapes)
        myDrawing.RemoveShape(s);
    }
//Save the drawing to a file when pressing S key
if (SplashKit.KeyTyped(KeyCode.SKey))
    myDrawing.Save("D:\\University\\May_2025\
      \COS20007_Object_Oriented_Programming\\Weekly_exercises\ >
      \5.3C\\TestDrawing.txt");
```

```
...ramming\Weekly_exercises\5.3C\ShapeDrawing\Program.cs
```

```
3
```

```
//open file
                if (SplashKit.KeyTyped(KeyCode.OKey))
                {
                    try
                    {
                        myDrawing.Load("D:\\University\\May_2025\
                          \COS20007_Object_Oriented_Programming\
                          \Weekly_exercises\\5.3C\\TestDrawing.txt");
                    }
                    catch (Exception e)
                        Console.Error.WriteLine("Error loading file: {0}",
                          e.Message);
                    }
                }
                myDrawing.Draw();
                SplashKit.RefreshScreen();
            } while (!window.CloseRequested);
        }
    }
}
```