```
Program.cs
using System;
using SplashKitSDK;
namespace ShapeDrawer
    public class Program
        public static void Main()
            Window window = new Window("Shape Drawer", 800, 600);
            Shape myShape = new Shape();
            do
            {
                SplashKit.ProcessEvents();
                SplashKit.ClearScreen();
                if (SplashKit.MouseClicked(MouseButton.LeftButton))
                    myShape.X = SplashKit.MousePosition().X;
                    myShape.Y = SplashKit.MousePosition().Y;
                }
                if (SplashKit.KeyDown(KeyCode.SpaceKey))
                    myShape.Color = SplashKit.RandomColor();
                myShape.Draw();
                SplashKit.RefreshScreen();
            } while (!window.CloseRequested);
       }
    }
}
```

```
Shape.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System.Reflection;
using SplashKitSDK;
namespace ShapeDrawer
    public class Shape
        private Color _color;
        private float _x;
        private float _y;
        private int _width;
        private int _height;
        public Shape()
            _color = Color.Green;
            _x = 0.0f;
            _{y} = 0.0f;
            _width = 100;
            _{height} = 100;
        }
        public void Draw()
            SplashKit.FillRectangle(_color, _x, _y,
            _width, _height);
        }
        public bool IsAt(Point2D pt)
            float minX = _x;
            float maxX = _x + _width;
            float minY = _y;
            float maxY = _y + _height;
            if (pt.X >= minX && pt.X < maxX && pt.Y >= minY && pt.Y <= maxY)
                return true;
            }
            else
            {
                return false;
        }
        public Color Color
            get
                return _color;
```

```
}
           set
              _color = value;
       }
       public float X
           get
               return _x;
           }
           set
              _x = value;
       }
       public float Y
           get
               return _y;
           set
             _y = value;
       }
       public int Width
           get
              return _width;
           set
               _width = value;
       }
       public int Height
           get
{
               return _height;
           }
           set
               _height = value;
       }
   }
}
```



