

## CS 2412 - Assignment #9: Reusable SortedDictionary of Colors (60 points)

### Overview

In this assignment, you are asked to build a reusable **SortedDictionary** of Colors and test it in a painter application. You need to create a **reusable class** and use the new class in a windows form application to change the color of painting tools. You need to use **generic collection SortedDictionary** and some windows form controls (i.e. **RadioBoxes**, **Panel**s, or **GroupBoxes**).

### Introduction

You must

1. Create a reusable class:
  - a. Create a *class library* application.
  - b. Add a class called **SortedColors**.
  - c. In the **SortedColors** class, use **SortedDictionary** of **System.Collections.Generic**:
    - i. Names of the colors should be used as keys. You can create an enumeration of names of the predefined colors in class **Color** (in the **System.Drawing** namespace).
    - ii. The predefined **Color** objects should be used as values.
  - d. Generate a **.dll** file of your app.
2. Modify the *11-2-EnhancedPainter* app (you can find it on Canvas, "Files/Examples"):
  - a. Add the **.dll** file to the references of the app
  - b. Modify the app to use the **SortedColor** class instead of **Color** (in the **System.Drawing** namespace).

### Notes

- Due: Thursday April 16<sup>th</sup> at 11:59pm
- Submit your document and entire Visual Studio solution directory as a **.zip** file called **hw9\_<yourFullname>.zip**.