



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

## INF 154 Assignment 1

### Practical #: 1

#### Topic: Practical Lecture 1 – Introduction to Programming

- Creating a Windows Form Project
- Add and use the following controls: buttons, labels and textboxes
- Edit properties of labels, buttons and textboxes
- Understand the keywords and meaning of the programming language

Practical Name: INF154Prac1xxxxxxxxx (where xxxxxxxxx is your student number)

Due: Monday, 6 March 2023 at 08:30

### Step 1: Traffic Light Form

Create the following Traffic Light form with the appropriate controls.

A screenshot of a Windows application window titled "Traffic Light". The window has a black background. On the left side, there are three vertically stacked rectangular buttons with a light gray background and a blue border. The top button is labeled "RED", the middle button is labeled "YELLOW", and the bottom button is labeled "GREEN". At the bottom center of the window, there is a small rectangular button with a light gray background and a black border, labeled "Close". The window title bar shows the standard Windows window controls: a minimize button, a maximize button, and a close button.

## Step 2: btnRed, btnYellow & btnGreen

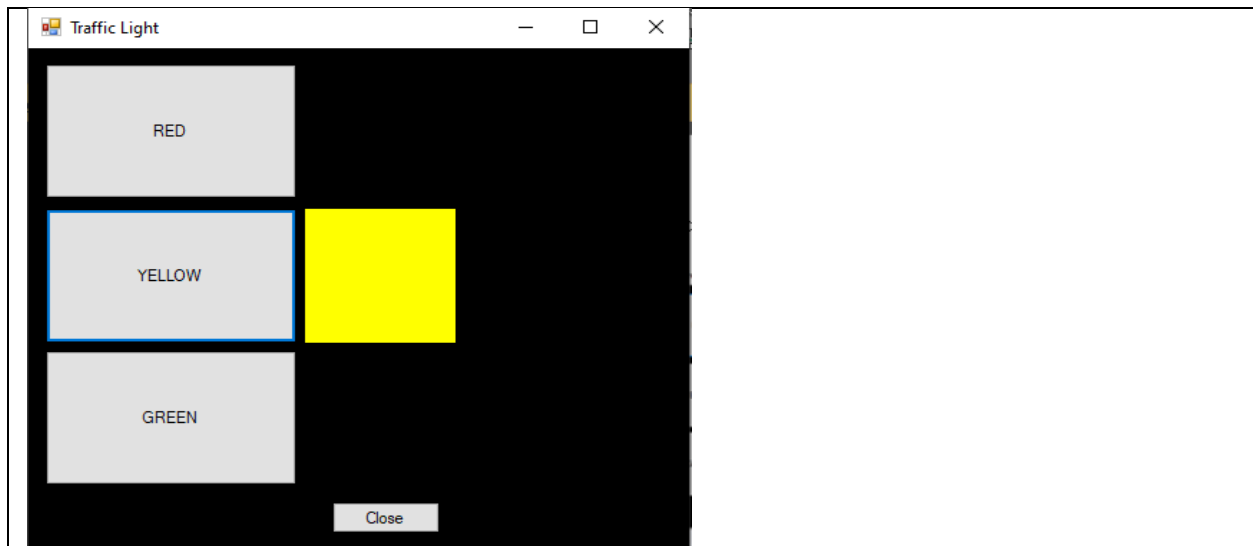
When the following buttons are pressed, the following should happen:

- **btnRed:** When this button is pressed, a red shape should appear next to it
- **btnYellow:** When this button is pressed, a yellow shape should appear next to it
- **btnGreen:** When this button is pressed, a green shape should appear next to it

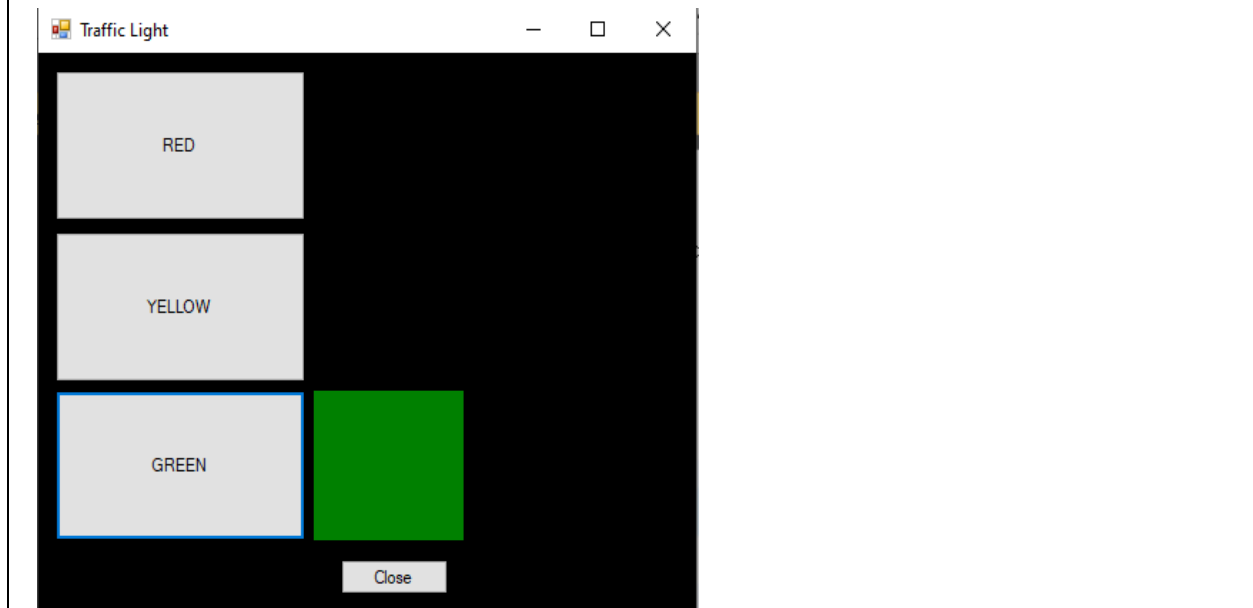
**(Note: When one shape appears, the other shapes should disappear. Only one colour should appear at a time when a button is pressed)**



Figure 1 - btnRed: When the "RED" button is clicked



*Figure 2 - btnYellow: When the "YELLOW" is pressed*



*Figure 3 - btnGreen: When the "GREEN" is pressed*

### **Step 3: btnClose**

When the "Close" button is pressed, the program should close and the application should end.

**(Note: This button should act the same way that the "X" button the top right of the form acts – it closes the program)**

**Student Name:** .....

**Student #:** .....

**Group #:** .....

**Marking RUBRIC**

<b>Outcome</b>	<b>Mark</b>
No errors (The program starts)	2
Created Required Form Design	2
Each button when pressed displays the appropriate colour	3
Each button when pressed removes all the other colours	2
The close button ends the program	1
<b>Total</b>	<b>/ 10</b>