**Assignment 2**

**Drawing the Cartesian Plane**

This assignment will test your understanding of functions, logic, and conditional statements. It will also test your ability to navigate the drawing plane.

**Navigation Help**



**Program Requirements:**

* Global variables (not defined inside a function)
	+ Positioning Variables
		- center\_x – integer value that stores the x position of the origin
		- center\_y – integer value that stores the y position of the origin
	+ Color Control
		- axis\_color – value stores the color eg. black, red, blue
	+ Control thickness of the line
		- axis\_weight – value stores the thickness of the axis lines
	+ Control axis label
	+ axis\_label\_color – value stors the color of the axis label text.
	+ axis\_label = value is true of false and is used to show and hide the X and Y markers
* Two functions must be created
	+ draw\_axis – Responsible for drawing the axis.
	+ draw\_labels – Responsible for drawing the axis labels X and Y.

**Test Cases:**

center\_x = 250 **and** center\_y = 250

center\_x = 250 and center\_y = 100

center\_x = 100 and center\_y = 250

center\_x = 100 and center\_y = 250

Figure 1 - center\_x = 100 and center\_y = 250



Figure 2- center\_x = 250 and center\_y = 100



Figure 3 - center\_x = 250 and center\_y = 250



Figure 4 - center\_x = 100 and center\_y = 100

