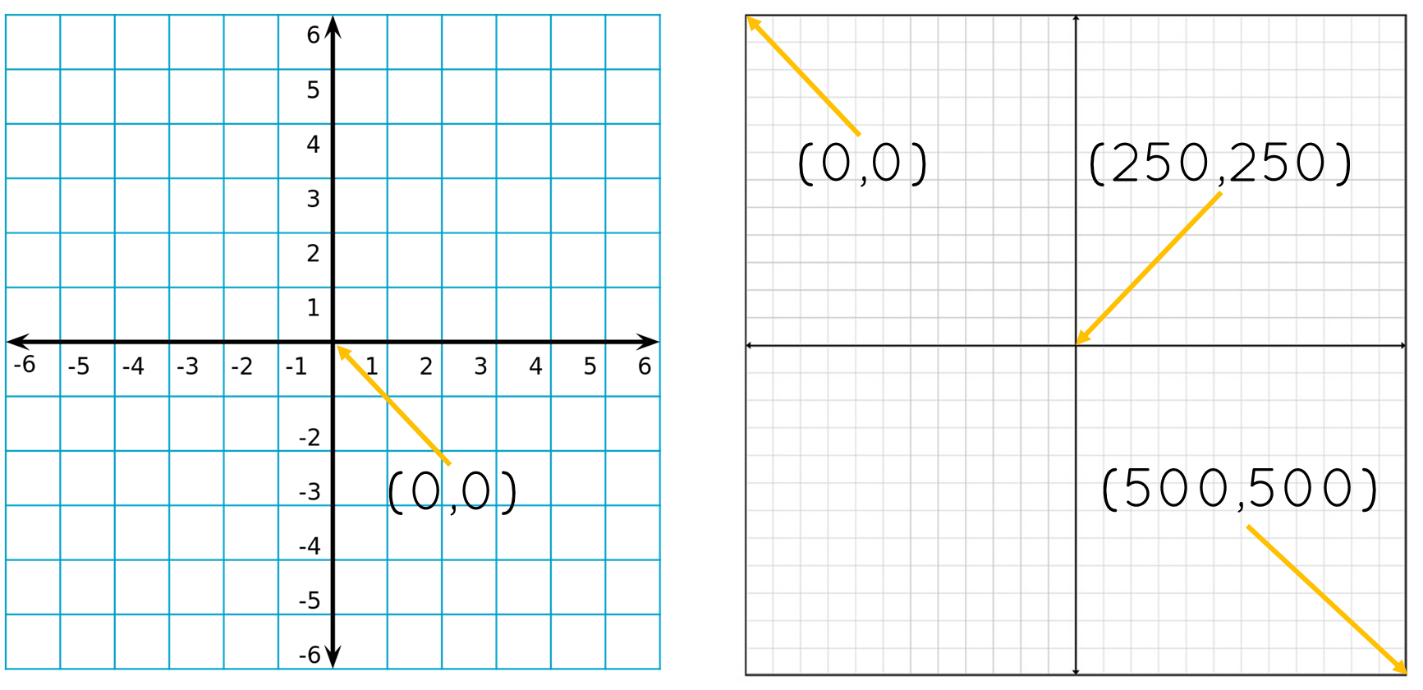
**Assignment 2**

**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

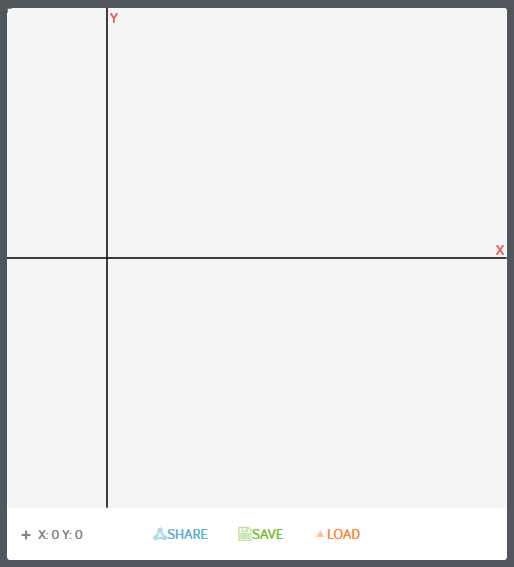


Figure 2- center\_x = 250 and center\_y = 100

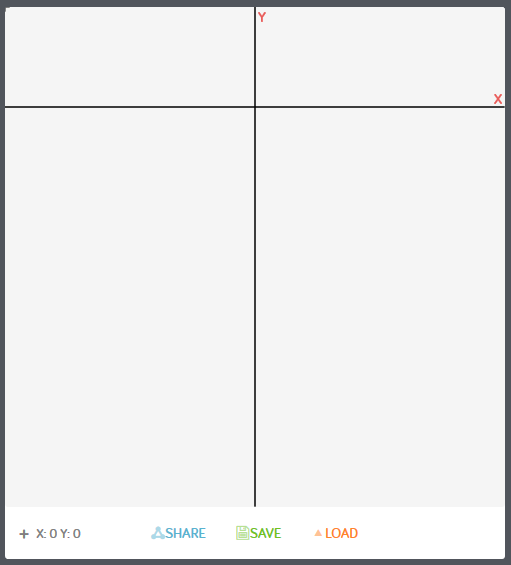


Figure 3 - center\_x = 250 and center\_y = 250

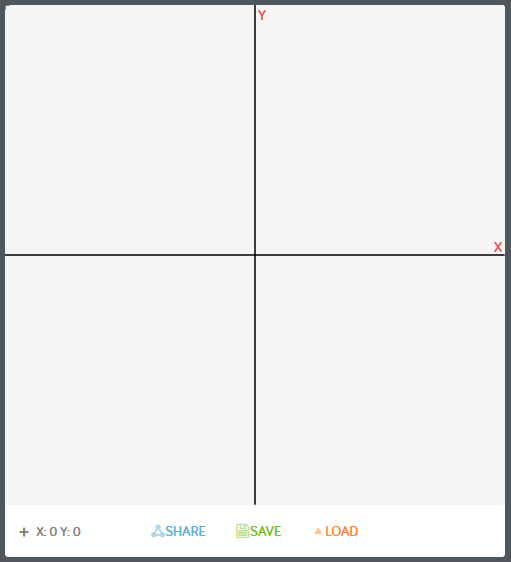


Figure 4 - center\_x = 100 and center\_y = 100

