**Learning Outcomes Addressed**

 2.Build web pages using JavaScript, HTML, and CSS

 4.Write conditional statements to define when a program should take certain actions

 5.Define functions to store specific actions that a program can execute upon new data

 7.Write a program that executes after some criteria are met

**Simulation - Detecting Screen Edge on the x- and y-axes**

#### Adding Screen Edge Detection on the y-axis

Now that you have added edge detection and the ball can bounce between two specific points on the x-axis on the page, it is time to increase the complexity.

Now add edge detection so that the ball can bounce between two specific areas on both the x-axis and y-axis on the page.

**Your task is to add JavaScript code that will allow the ball to move between two fixed positions on the x-axis and y-axis on the page.**

To accomplish this task, you need to do the following:

* Define a global variable called positionY and set its value to 0.
* Inside the moveBall() function, note the two variables called Ymin and Ymax. These variables define the two points on the y-axis of the page where the ball should bounce.
* Update the logic you created in step 3 to include checks for the y-axis position of the ball.

After implementing these changes, the ball should bounce diagonally between the defined points on both the x-axis and y-axis.

Task

Add an HTML and a JavaScript code that will allow the ball to move between two fixed positions on the x-axis and y-axis on the page.