

1. Create a web page that would display the following form:

The form is a web interface for a 'Matrix Toolbox'. It features a header bar with the title 'Matrix Toolbox' and navigation links: 'Home', 'Link', 'Dropdown' (with a downward arrow), and 'Disabled'. On the right side of the header, there are two search bars, each with a 'Search' button. Below the header, the form contains two input fields: 'Number of Rows' and 'Number of Columns'. A blue 'Submit' button is positioned below the 'Number of Columns' input field.

When you provide the number of rows and columns in the form and hit “Submit”, it should do the following:

- generate a 2-dimensional array (a matrix) of the given number of rows and columns with random integers from 1 to 100.
- Display the matrix and its transpose on the screen
- If the number of rows is equal to the number of columns (i.e, if it is a square matrix) it should add the matrix and its transpose and display the result.
- For a square matrix, what do you notice about the matrix you get after addition?