MATRIX CALCULATOR

PROCEDURE & METHODOLOGY

* Using a do while Loop we ask for the choice of operation on the matrix from the user.
* After getting the choice of input we call the required function from the code and perform its operation.
* Using the numpy module is really useful in calculating the transpose and inverse of a 2D array (matrix) which avoids complex algorithms to perform the same.
* For example, the nd.array() function converts a list into array, the np.transpose() function returns the Transpose of the Matrix(2D array), the np.linalg.inv() function returns the Inverse of the matrix (2D array).
* If an invalid input is entered by the user, we use the if..else statement for checking the user input with Match Conditions.
* As we’ve included the input statement in while loop, after each operation and printing the output, we ask the user again for input to perform further/other operations or exit the Program code. If done so, the program using the break statement, would terminate the loop and hence the program’s executable code.

==========X=============X=================X==============X===========