Graphical user interface, text, application, chat or text message, email

Description automatically generated

This code uses NumPy to create a random vector of 15 integers, reshape it into a 3x5 array, and replace the maximum value in each row with 0. It first generates a vector using random.randint(), then reshapes it with reshape(), and displays the shape of the array using print(). The maximum value in each row is replaced with 0 using argmax() and NumPy's indexing syntax. The resulting array is then displayed using print().

Graphical user interface, text, application

Description automatically generated

This code uses NumPy to compute the eigenvalues and right eigenvectors of a given 2x2 square array. The array is defined using np.array(), and the eigenvalues and right eigenvectors are computed using np.linalg.eig(). The resulting eigenvalues and eigenvectors are displayed using print().

Graphical user interface, text, application

Description automatically generated

This code uses NumPy to compute the sum of the diagonal elements of a 2x3 array. The array is defined using np.array(), and the sum of diagonal elements is computed using np.trace(). The resulting sum is displayed using print().

Text

Description automatically generated

This code uses NumPy to create a 2-dimensional array, reshape it to a 3x2 array, and then to a 2x3 array. The original array is defined using np.array(), and the reshape() function is used to reshape the array to the desired shapes. The resulting arrays are then displayed using print().

Text

Description automatically generated

Chart, pie chart

Description automatically generated

This is a Python code snippet that uses the matplotlib.pyplot module to create a pie chart showing the popularity of different programming languages. The code defines the data to plot, the colors to use for each slice of the chart, and how much to "explode" each slice. The pie function is then used to create the chart, with various options set for labeling, formatting, and appearance. Finally, the aspect ratio is set to be equal and the chart is displayed using the show() function.

GitHub URL:

[https://github.com/Divyakudipudi7/ICP3](%20https://github.com/Divyakudipudi7/ICP3)

Video URL:

<https://drive.google.com/file/d/1kDrPmkkIDk2ydvmPMvYkS0mbTS5bVALC/view?usp=share_link>