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Video link: https://drive.google.com/file/d/1tC8zQEV8FqgvMQ-d\_5EAc16zpe78lu2R/view?usp=sharing

Github link: https://github.com/MythreshM/CS5710\_Assignment3

1.

a) Using NumPy create random vector of size 15 having only Integers in the range 1-20.

A picture containing chart

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i) Reshape the array to 3 by 5, we use numpy.reshape function

Text

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ii) Print array shape

Graphical user interface, text, application

Description automatically generated

iii)

Text

Description automatically generated

Create a 2-dimensional array of size 4 x 3 (composed of 4-byte integer elements), also print the shape, type and data type of the array.

Graphical user interface, text, application

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b) program to compute the eigenvalues and right eigenvectors of a given square array

Graphical user interface

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c) the sum of the diagonal element

A picture containing shape

Description automatically generated

d) NumPy program to create a new shape to an array

Graphical user interface, text, application

Description automatically generated

2)

Graphical user interface, application

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