LAB Logbook

Lab 1

Code-

import numpy as np

# Last two digits of SID

last\_two\_digits = 71

# Create a vector with np.arange of size 71

vector = np.arange(last\_two\_digits)

# Convert the vector to a 2D array with 1 row

matrix\_2d = vector.reshape(1, -1)

# Print the vector

print("1D Vector:")

print(vector)

# Print the 2D array

print("\n2D Array with 1 row:")

print(matrix\_2d)

# Check the shape of the 2D array

print("\nShape of the 2D Array:")

print(matrix\_2d.shape)

# Check the dimession of the array

print("\nDimession of the Array:")

print(matrix\_2d.ndim)

Output-

A screenshot of a computer

Description automatically generatedA white rectangular object with black lines

Description automatically generated with medium confidence

Lab 2

Lab 3

Lab 4

Lab 5

Lab 6

Lab 7

Lab 8

Lab 9

Lab 10

Lab 11

Lab 12