**SOURCE CODE:**

import numpy as np # Import Numpy

N=int(input('Enter how many columns to be added in matrix')) # Get how many columns to be generated

# Get Increase value True or False

increase = int(input('Enter in which order the matrix should be generated, Increase is True(1) or False(2)'))

x = np.array([1, 2, 3, 4, 5]) # Input array

def Generate\_matrix(N,increase): # Function to generate matrix

if order is 1: # If increase is True

y = np.column\_stack([x\*\*(i) for i in range(N)])

elif order is 2: # If increase is False

y = np.column\_stack([x\*\*(N-1-i) for i in range(N)])

return y # return output

Generate\_matrix(N,increase) # call function

**OUTPUT:**

