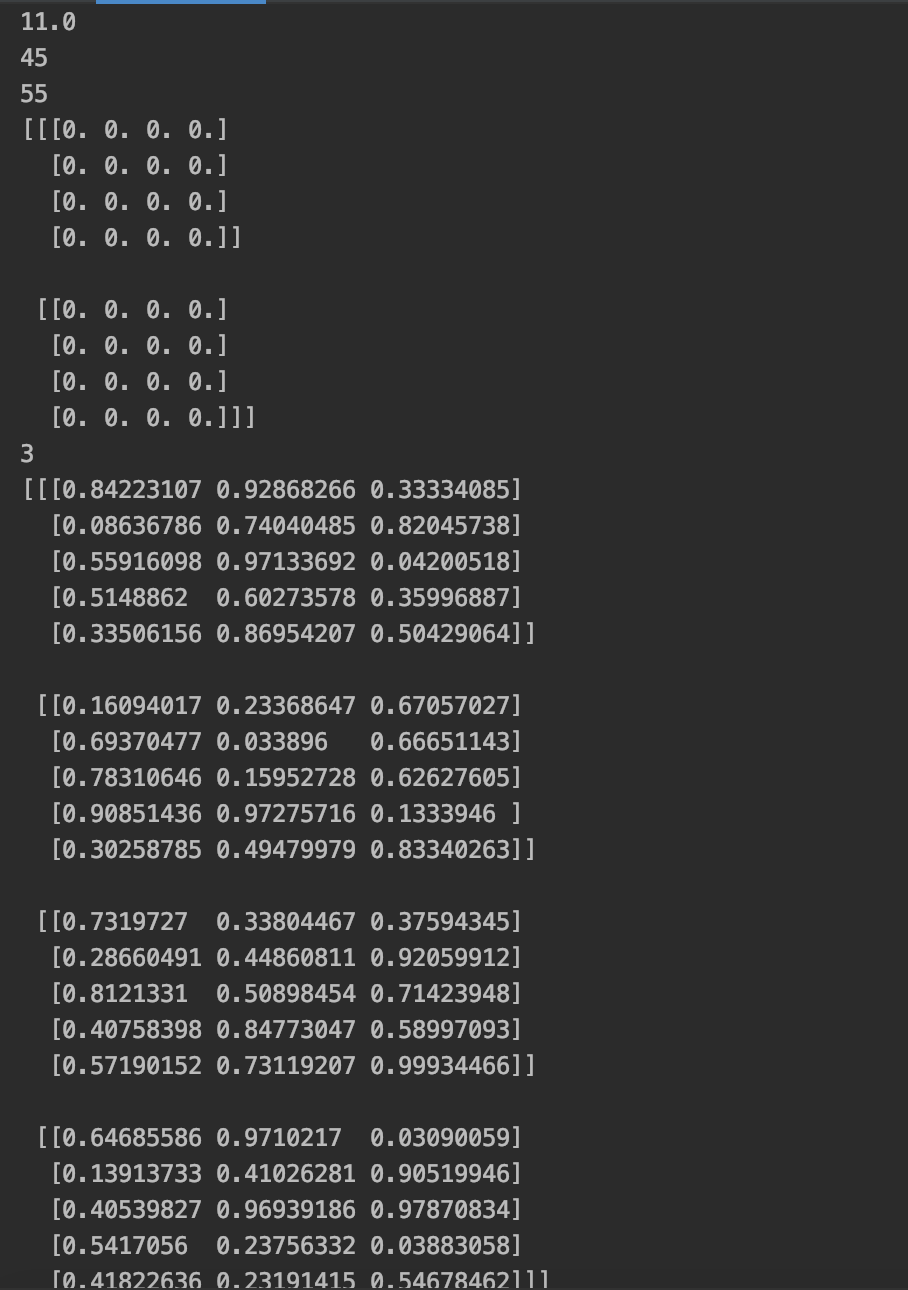
#Lab  
#2 Create an array from a range of values from 1 to 20 incrementing by 2  
import numpy as np  
ab = np.arange(1,20,2)  
print(ab)  
#3 Print datatype  
print (ab.dtype)  
#4 Print size of array  
print (ab.size)  
#5 Reshape array created to 5 rows and 2 columns  
abc = ab.reshape(5,2)  
print (abc)  
#6.a Find and print MAX of each row  
print (np.max(abc[0]))  
print (np.max(abc[1]))  
print (np.max(abc[2]))  
print (np.max(abc[3]))  
print (np.max(abc[4]))  
  
#6.b Find and print MIN of each row  
print (np.min(abc[0]))  
print (np.min(abc[1]))  
print (np.min(abc[2]))  
print (np.min(abc[3]))  
print (np.min(abc[4]))  
  
#6.c Find anf print AVG of each row  
print (np.mean(abc[0]))  
print (np.mean(abc[1]))  
print (np.mean(abc[2]))  
print (np.mean(abc[3]))  
print (np.mean(abc[4]))  
  
#6.d Find and print SUM of each row  
print (np.sum(abc[0]))  
print (np.sum(abc[1]))  
print (np.sum(abc[2]))  
print (np.sum(abc[3]))  
print (np.sum(abc[4]))  
  
#7.a Find and print the MAX of each column  
print (np.max(abc[:,0]))  
print (np.max(abc[:,1]))  
  
#7.b Find and print the MIN of each column  
print (np.min(abc[:,0]))  
print (np.min(abc[:,1]))  
  
#7.c Find and print the AVG of each column  
print (np.mean(abc[:,0]))  
print (np.mean(abc[:,1]))  
  
#7.d Find and print the SUM of each column  
print (np.sum(abc[:,0]))  
print (np.sum(abc[:,1]))  
  
#8 Create a multi-dimensional; array consisting of 2 instances of 4 rows and 4 columns  
#full of 0's  
abcd = np.zeros((2,4,4))  
print(abcd)  
print(abcd.ndim)  
  
#9 Create a multi-dimensional; array consisting of 4 instances of 5 rows and 3  
#columns full of random numbers.  
md = np.random.random((4,5,3))  
print (md)

A close up of a logo

Description automatically generated