Assignment 6

NumPy

Q1
Create 5 by 10 array with all elements random between 50 and 100.

Q2
Perform multiplication of matrices

Q3
Create an array of first 10 powers of 2

Q4
Let X = np.array([[0, 1, 2, 3], [4, 5, 6, 7], [8, 9, 10, 11]]). Get the diagonal of X, that is, [0, 5, 10].

Q5
Create a 2-D array whose diagonal equals [1, 2, 3, 4] and 0's elsewhere.

Q6
Create an array which looks like below. array([[1, 2, 3], [4, 5, 6], [0, 8, 9], [0, 0, 12]])