**Import numpy as np and see the version**

Q. Import numpy as np and print the version number.

import numpy as np

print(np.\_\_version\_\_)

#> 1.13.3

Q. Create a 1D array of numbers from 0 to 9

Desired output:

#> array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9])

## create a boolean array?

Q. Create a 3×3 numpy array of all True’s

Q. Extract all odd numbers from arr

Input:

arr = np.array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9])

Desired output:

#> array([1, 3, 5, 7, 9])

Q. Replace all odd numbers in arr with -1

Input:

arr = np.array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9])

Desired Output:

#> array([ 0, -1, 2, -1, 4, -1, 6, -1, 8, -1])

Q. Replace all odd numbers in arr with -1 without changing arr

Input:

arr = np.array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9])

Desired Output:

out

#> array([ 0, -1, 2, -1, 4, -1, 6, -1, 8, -1])

arr

#> array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9])

**reshape an array**

Q. Convert a 1D array to a 2D array with 2 rows

Input:

np.arange(10)

#> array([ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9])

Desired Output:

#> array([[0, 1, 2, 3, 4],

#> [5, 6, 7, 8, 9]])

Q. Get all items between 5 and 10 from a.

Input:

a = np.array([2, 6, 1, 9, 10, 3, 27])

Desired Output:

(array([6, 9, 10]),)

Q. Swap columns 1 and 2 in the array arr.

Q. Swap rows 1 and 2 in the array arr:

Q. Print or show only 3 decimal places of the numpy array rand\_arr.