**NUMPY ARRAY SLICING:**

**#Slicing in python means taking elements from one given index to another given index.**

**#We pass slice instead of index like this: [start:end].**

**#We can also define the step, like this: [start:end:step].**

**#If we don't pass start its considered 0**

**#If we don't pass end its considered length of array in that dimension**

**#If we don't pass step its considered 1**

**import numpy as np**

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

**print(arr[1:5])**



**import numpy as np**

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

**print(arr[4:])**



**import numpy as np**

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

**print(arr[:4])**



**import numpy as np**

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

**print(arr[-4:-1])**



**import numpy as np**

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

**print(arr[1:5:2])**



**import numpy as np**

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

**print(arr[::2])**



**import numpy as np**

**arr = np.array([[1, 2, 3, 4, 5], [6, 7, 8, 9, 10]])**

**print(arr[1, 1:4])**



**import numpy as np**

**arr = np.array([[1, 2, 3, 4, 5], [6, 7, 8, 9, 10],[11,12,13,14,15]])**

**print(arr[2,0:2])**



**import numpy as np**

**arr = np.array([[1, 2, 3, 4, 5], [6, 7, 8, 9, 10],[22,33,44,55,66]])**

**print(arr[0:3, 2]) #from both elements of array, return the value present at index 2**



**import numpy as np**

**arr = np.array([[1, 2, 3, 4, 5], [6, 7, 8, 9, 10]])**

**print(arr[0:2, 1:4])**

