NumPy Lab

1- Create a NumPy program to create a 3x3 identity matrix

np.eye(3)

2- Create a NumPy program to generate 5 random number between 0 and 1

np.random.rand(5)

3- Write a NumPy program to append values to the end of an array.

Expected Output:

Original array: np.hstack(

np.array(***[10, 20, 30]***), np.array([40,50,60,70,80,90]))

After append values to the end of the array:

[10 20 30 40 50 60 70 80 90]

4- Write a NumPy program to create a 3X4 array and iterate over it using nditer.

5- Write a NumPy program to create a 1-D array then convert it into 2-D array then print value and position for each value using ndenumerate.

#4

```
arr 3x4 = np.arange(12).reshape(3,4)
for x in np.nditer(arr 3x4):
    print(x)
```

#5

```
for idx, val in np.ndenumerate(arr 3x4):
    Print(f'{idx}:{val}')
```

Sorry for inconvenience <3