



Experiment No. 2.1

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1. Aim/Overview of the practical:

A. Write an experiment to swap two columns in numpy array.

B. Write an experiment import a dataset with numbers and texts keeping the text intact in python numpy?

2. Algorithm for experiment/practical:

A.)

- First, we import NumPy module
- Create a NumPy array
- Swap the column with Index
- Print the Final array

B.)

- To open the file, use the built-in open() function.
- The open() function returns a file object, which has a read() method for reading the content of the file.

3. Code for experiment/practical:

A.

```
import numpy as np

my_array = np.arange(12).reshape(4, 3)
print("Original array:") print(my_array)

my_array[:, [2, 0]] = my_array[:, [0, 2]]
print("After swapping arrays the last column and first column:")
print(my_array)
```





```
Original array:

[[ 0  1  2]
  [ 3  4  5]
  [ 6  7  8]
  [ 9  10  11]]

After swapping arrays the last column and first column:

[[ 2  1  0]
  [ 5  4  3]
  [ 8  7  6]
  [11  10  9]]
```

Process finished with exit code 0

В.

```
import numpy as np
File_data = np.loadtxt("clipboard.txt", dtype=int)
print(File_data)
```

C:\Users\krish\AppData\Local\Microsoft\Wi
[1 2 3 4 5 6 7]

Process finished with exit code 0

Learning outcomes (What I have learned):

- **1.** Swapping of two columns in numpy.
- 2. Import a dataset with numbers and texts keeping the text intact in python numpy.