

file handling

- ① Read
- ② Closing & understand the content inside the file
- ③ how to write the data in a given file
- ④ create a new file
- ⑤ delete a file

readlines()

{ All lines: ['This is a sample text used to demonstrate the concepts of file handling.\n', 'I hope you will enjoy the today's demonstration.\n', 'And find the overall discussion very helpful and insightful for your upcoming career.\n']

read vs readline vs readlines

Use of Libraries (In built module)

(Python Programming)

- ↳ Efficiency → ready -to -use methods
that helps us to do the
task in a more easier &
faster manner.
- ↳ Reusability → same module in different
projects in a very
seamless way.
- ↳ Toolbox → Python Library
 - ↳ collection of
various tools
↳ Modules
- ↳ Specialization

Numpy → Mathematical Complex

task

Pandas → Data manipulation

Matplotlib → Visualization

Seaborn → Visualization

Numpy → Numerical Python



Deep Learning

all about arrays

Image

data

Matrix

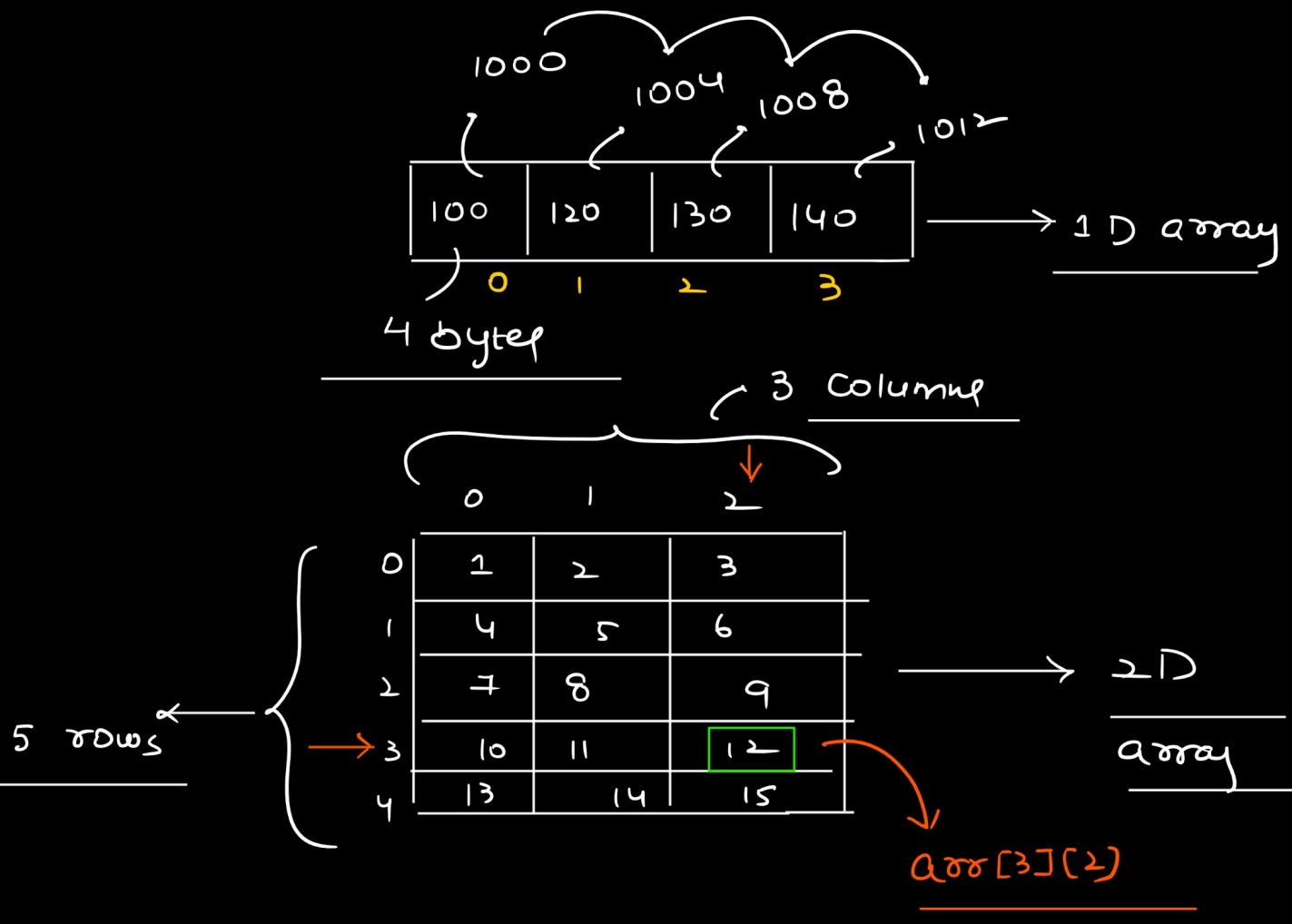
Pixel values

↳ 0 to 255

Array → store multiple values using a single identifier

The important characteristics of an array are:

1. Each element of the array is of same data type, though the values stored in them may be different.
2. The entire array is stored contiguously in memory. This makes operations on array fast.
3. Each element of the array is identified or referred using the name of the Array along with the index of that element, which is unique for each element. The index of an element is an integral value associated with the element, based on the element's position in the array.

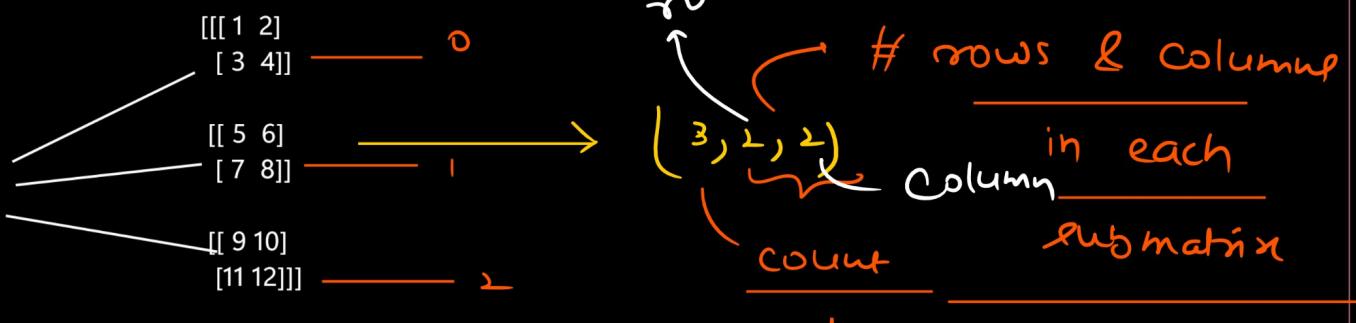


3 D array → x, y, z

↳ Create

↳ Access of elements using
index

Attribute → properties



Submatrices