Arrays

100 lot

An array is a collection of elements stored in contigous memory location.

All elements of array are of same data type (int, float etc.)
Array allow for eficient access and monipulation of data.

- -> fixed size arm [5]
- -> homogenous int

In bython we use list instead of array as they provide more Slexibility. However, python provide ability to use array via libraries such as numby and array

Type code	С Туре	Python Type	Minimum size in bytes
'b'	signed char	int	1
'B'	unsigned char	int	1
'u'	wchar_t	Unicode character	2
'h'	signed short	int	2
'H'	unsigned short	int	2
'i'	signed int	int	2
'I'	unsigned int	int	2
יני	signed long	int	4
יני	unsigned long	int	4
'q'	signed long long	int	8
'Q'	unsigned long long	int	8
'f'	float	float	4
'd'	double	float	8

Array

Homogenous (some type)

Flexibity

Perjormance

Data type

Fixed size

More memory efficient

for lorge data.

Usage in python Use array or numby List

Heterogenous

(different type)

Dynamic (con grow and shrink)

Slower for lorger dotaset

Built in