## Arrays

## Arrays are data structures which allow more

 than one data item to be stored in a single variableIn Python they are implemented using lists


## Arrays

One variable name
Array shown by [ ]
Items separated by ,
fruitArray <- ["apples", "oranges", "bananas"]

## Arrays

Arrays have a length
Arrays are indexed - usually starting from 0
fruitArray <- ["apples", "oranges", "bananas"]

LEN(fruitArray) is ?????

## Arrays

fruitArray <- ["apples", "oranges", "bananas"]

## fruitArray[0] is ?????

fruitArray[1] is ?????

## Arrays

binArray <- $[1,2,4,8,16,32,64,128,256]$

LEN(binArray) is ?????
binArray[2] is ?????
binArray[4] is ?????
binArray[8] is ?????
binArray[9] is ?????

## Arrays

emptyArray <- []

## LEN(emptyArray) is ?????

 emptyArray[0] is ?????

