

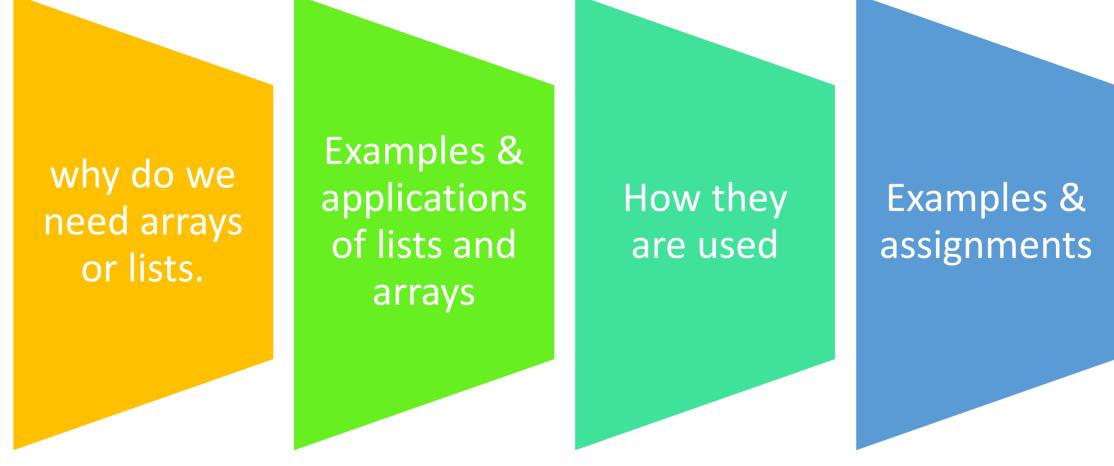


# Python Lists & Arrays

By

Dr. Mohammed Abdullah M. Bamatraf

#### Lecture outline







Item	qty	Unit Price	Amount
rice	2	1000	2000
salt	1	500	500
juice	6	200	1200
Mango	10	300	3000
sweets	2	500	100
Tota	6800		

```
total = 0
for i in range (0,5,1):
    price=int(input("Enter Price:"))
    qty = int(input("Enter qty:"))
    amount = qty * price
    total = total +amount
print(total)
```



 Single variable
 1

 Array:
 Indexes
 0
 1
 2
 3
 4

 Values
 1
 3
 8
 23
 99

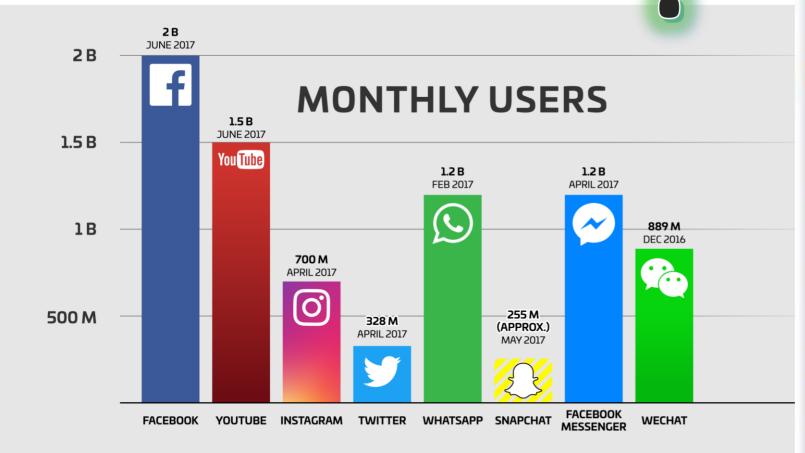
X

- Read a list of integer numbers and print the sum as following:
  - If the numbers are 5, and they are, say: 9, 11, 20, 3, and 61
  - Then print the sum as 9 + 11 + 20 + 3 + 61 = 104
  - Here, you must save every number and then print it

```
total = 0
for i in range (0,5,1):
     x=int(input("Enter number :"))
     total = total +x
print(total)
```



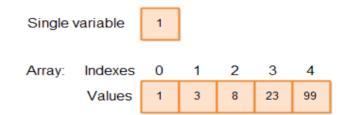




	А	В	С	
1				
2	Subject	Student	Score	
3	Maths	Hammad	66	
4	English	Hammad	77	
5	Science	Hammad	44	
6	French	Hammad	55	
7	Management	Hammad	88	
8	Economics	Hammad	77	
9	Business	Hammad	98	
10	Accounting	Hammad	88	
11	Auditing	Hammad	87	
12	Finance	Hammad	76	
13	Maths	Steve	67	
14	English	Steve	86	
15	Science	Steve	77	
16	French	Steve	86	
17	Management	Steve	56	



Student marks

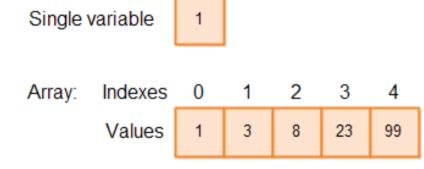


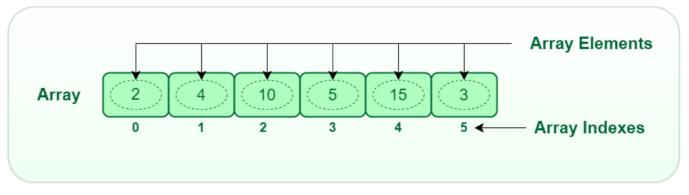


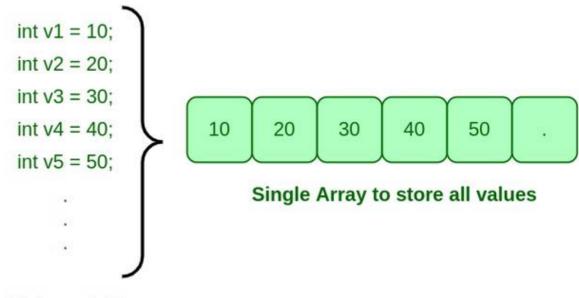


# Python List fundamentals?

As a set of ordered elements, stored and identified under a single identifier or name







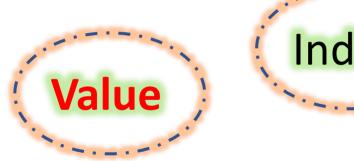
Multiple variables

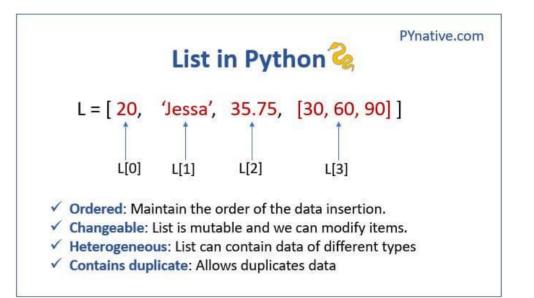
to store each value



### Fundamentals of Python Lists

As a set of ordered elements, stored and identified under a single identifier or name

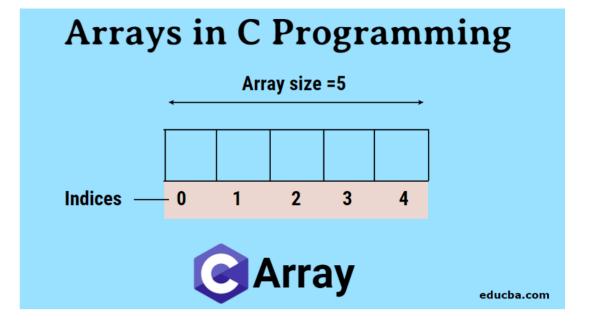




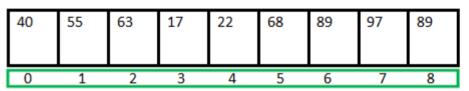


### Arrays?

As a set of ordered elements, of the same type stored and identified under a single identifier or name







<- Array Indices

Array Length = 9 First Index = 0 Last Index = 8



# Thank U

Discussion

