

$x \rightarrow \text{list}$

0	Saudi Arabia
1	Arab Emirates
2	Egypt
	⋮

Print( $x[1]$ )  
Print( $y["ae"]$ )

$y \rightarrow \text{dict}$

966	SA	Saudi Arabia
971	ae	Arab Emirates
20	eg	Egypt
		⋮

Enter std. marks: 70 63 85 95 45

A	81
B	81
C	81
D	81
E	81

Enter exps salaries: 5K 13K 7K 15K

$>12$  High  $>6$  Normal Low

High	8/12
Normal	8/1
Low	8/1

$s1$

id	name
mobile	email
balance	

$s2$


OOP

Object  $\rightarrow$  special variable  
place in memory

Class  $\rightarrow$  code

How to create object?  
Define operations on object

width	length

$$\text{area} = \text{width} \times \text{length}$$

OOP

Rectangle

width  
length

--init--(-,-)  
get\_area()

--	--

name	weight	height

$$\text{bmi} = \frac{\text{weight}}{(\text{height}/100)^2}$$

$< 18.5$  Underweight  
 $< 25$  Normal  
 $< 30$  overweight  
obese

OOP

Patient

name  
weight  
height

--init--(-,-,-)  
get\_bmi()  
get\_status()

--	--	--

name	salary	hire-year

$$\text{annual\_salary} = \text{salary} \times 12$$

$$\text{service\_period} = 2021 - \text{hire\_year}$$

OOP

Employee

name  
salary  
hire-year

--init--(-,-,-)  
get\_annual\_salary()  
get\_service\_period()





