CPE/CSC 101

- Today · Object Equality
 - · Bookean Operators

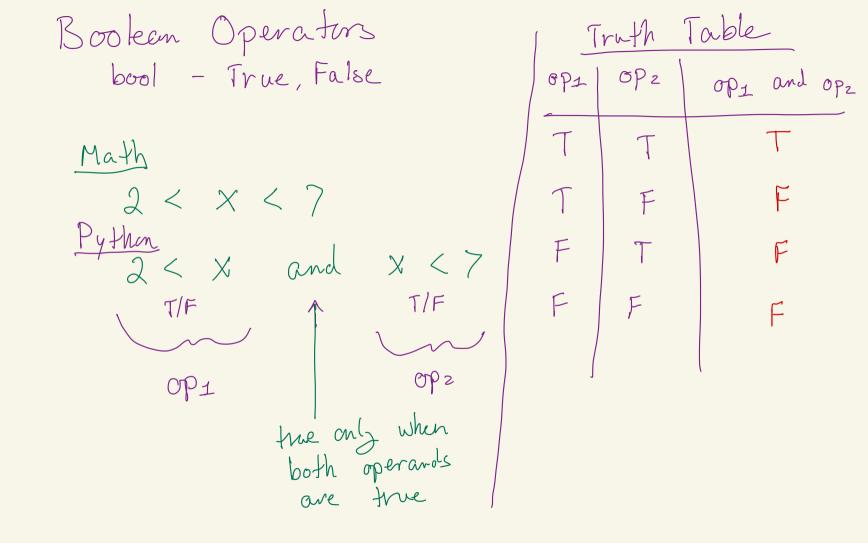
- · Assignment # 1 revisions by 10pm 1/20/2021
- · Quiz #2

```
class Point:
   def __init__(self, x: float, y: float):
        self.x = x
        self.y = y
p1 = Point(2, 3)
p2 = Point(2, 3)
```

p1 = Point(2, 3) p2 = p1P1 == p2 True default implementation that compares for identical references (for objects)

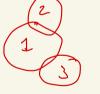
p1 is p2

" identity



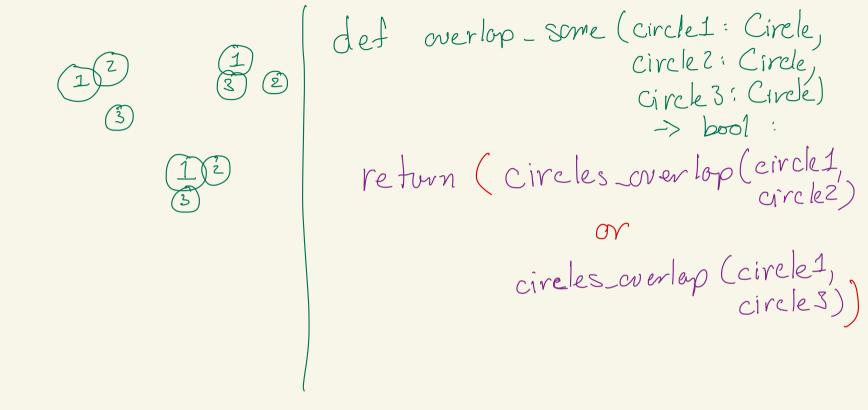
x = 4 cond = x < 7 and x > 2Precedence # Determine if two circles both overlap a third circle * , / +, - not equal If imput: Circle to check for overlap # with two others as Circle # imput: another Circle ۷,>=,==,!= # input: a third Circle H result: bool not det overlap_3 (circle1: Circle, and circle 2 · Circle, circle 3: Circle) -> bool: OV return (circles_overlop(circle1, circle2) | lower and circles_overlop(circle1,

circles_overlop (circle 1, circle 2 and circle 3) return





Truth op2 10P2 or opz OPI F



def overlaps_only_one (circle1: Circle, circle2: Circle) not op not op -> bool : overlops2 = circles_overlop(circle1, circle2) overlep53 = circles_overlop(circle1) circle3) return (overlop2 or overlops3)

and

not (overlops2 and

or

return (overlops3)

return (overlops3)

return (overlops3) (overlaps) and not overlaps?)

	and not overlaps and not overlaps			overlops2
overlaps2		nod averlaped	2 not overlaps3	not overlope 3
	T	F	F	F
	F	F		
F			F	F
F	F			F

31

XOY (exclusive or) A < Python op2

Point: def __init__(self, x:float, y:float): self.x =x self. y = y def __eq__ (self, other: object) >> bool: return (type (other) is Point resume type

and self x = tother. x and self.y == otherly near equality lob comparison p1 == 4