CSC 101

Today_

·Making Decisions

· Conditional (if) Statements

· Reasoning about Conditionals

· Testing Conditionals

Rainy weather is the best weather. True or

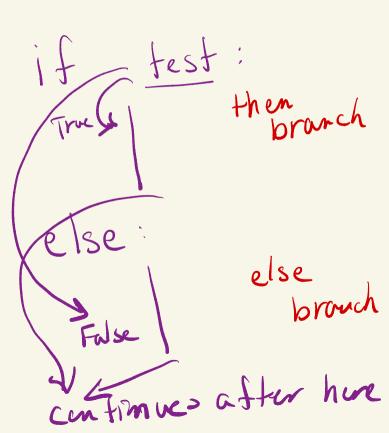
Absolutely True?

Known Values (globally) result 1337 class Duration: def __init__(self, minutes: int, seconds: int): self.minutes = minutes class Duration ... self seconds = seconds def duration_to_seconds # Converts Duration object into total seconds # input: duration as Duration example-duration # result: total seconds as int minutes 15 def duration_to_seconds(duration: Duration) -> int: return duration.minutes * 60 + duration.seconds seconds 37 example_duration = Duration(5, 37) # show evaluation steps starting here result = duration to seconds (example duration) result = duration. to-seconds (Wlin duration. minutes × 60 duration to secs + duration, seconds duration · minutes * 60 + duration. seconds 60 + duration. seconds return 300 + duration. Seconds re turn seconds veturn 337 return ~ result = 337 re turn 300

300+ Seconds duration duration minutes)

def largest(x: float, y: float) -> float:
 if x > y:
 return x
 else:
 return y

largest (2, 4)



class Tests (...): def test_largest (self); self.assertAlmostEqual (largest(2,4), max_of_three (3, 4, 2)

def max_of_three (X: float, y: float, z: float) >

float: return largest (largest(X, Y), Z) test -- egdef max-of-three (x: float, y: float, z: float) > what do we know? > Z

what do we know?

x > y and z >= X return 2 else: 2 what is Known here? not (x > y)

def max-of-three (x: float, y: float, z: float) ->
float: if x > y and x > 2: return X = x>y and x>z elif y>z: return y else: return z

class Point: def __init___... det -- eg -def test_eg_Point (scif); pt1 = Point (1,2) pt2 = Point (1,2) self. assert Equal (pt1, pt2) self. assert True (pt1 == pt2)