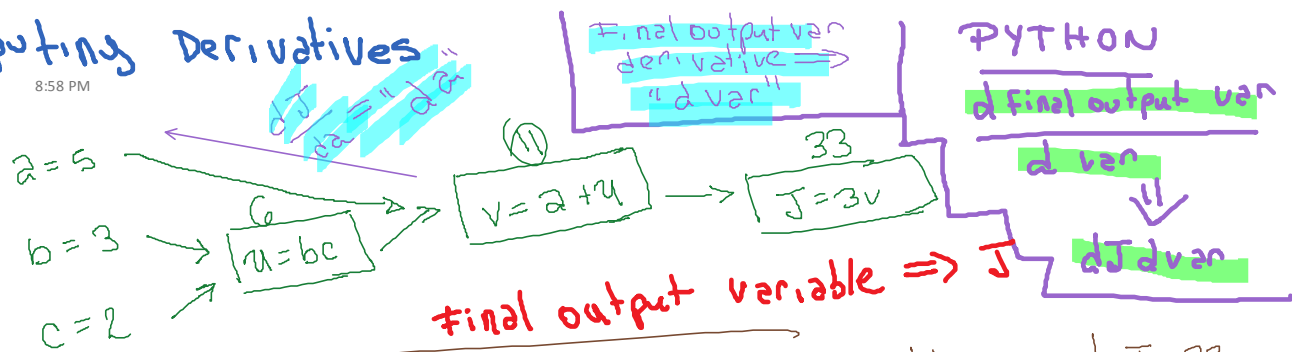


Computing Derivatives

Monday, August 21, 2017 8:58 PM



$$\frac{dJ}{da} = 7 = 3 \Rightarrow$$

$$= \frac{dJ}{dv} \frac{dv}{da}$$

Chain Rule: $a \rightarrow v \rightarrow J$

$$\frac{dJ}{dv} \times \frac{dv}{da} \Rightarrow 3 \times 1 = 3$$

Values at each node:

- $a = 5$, $a' = 5.001$
- $u = 6$, $u' = 11.001$
- $v = 11$, $v' = 11.001$
- $J = 33$, $J' = 33.003$