

Time 2.)

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# giving the quantities of the variables

passenger\_count = 2

time\_of\_day = 8

pickup\_latitude = 5

pickup\_longitude = 7

dropoff\_latitude = 10

dropoff\_longitude = 12

# making the variables short

pg = passenger\_count

rr = time\_of\_day

distance = euc\_distance

lat1 = pickup\_latitude

lat2 = dropoff\_latitude

long1 = pickup\_longitude

long2 = dropoff\_longitude

# defining the euclidean distance then returning the calculation for it

def euc\_distance(lat1, long1, lat2, long2)

return  $((lat1 - lat2)^2 + (long1 - long2)^2)^{0.5}$

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# calculating final fare based on distance ride rate, # number of passengers

fun(tax\_fare) = (distance \* rr \* pg)

return tax\_fare

$$= (20 \times 2 \times 2) = 80$$

# Fare amount is \$80