

Engineering 102-518

Lab #2 Activity 3

Abdullah Ahmad

927009064

abdullah2808@tamu.edu

Eric stevelman

927005606

Estevelman@tamu.edu

Harley Ullrich

927005377

hh500995@tamu.edu

Aaron ehmyr

526008453

acehmory@tamu.edu

9/4/18

Instructions:

Find the average speed between 30 and 45 seconds

Find the intercept

Use the time between 30 and 45 seconds and multiply it by the slope and add the intercept

Inputs:

(x1,y1)

(x2,y2)

Slope = $(y2-y1)/(x2-x1)$

inputs

Time1 = 30 seconds

Time2 = 45 seconds

Time3 = 37

Distance1 = 50 meters

Distance2 = 615 meters

slope = $(\text{Distance2} - \text{Distance1})/(\text{Time2} - \text{Time1})$

Intercept = $\text{Dist1} - \text{Time1} * \text{Slope}$

calculate_distance = $\text{slope} * \text{Time3} + \text{intercept}$

```
1 # By submitting this assignment, all team members agree to
  the following:
2 # "Aggies do not lie, cheat, or steal, or tolerate those
  who do"
3 # "I have not given or received any unauthorized aid on
  this assignment"
4 #
5 # Names: Abdullah Ahmad
6 # Aaron Ehmry
7 # Harley Ullrich
8 # Eric Stevelman
9 # Section: 518
10 # Assignment: Lab 2 Activity 3
11 # Date: 4/9/2018
12
13 time1 = 30 #sec
14 time2 = 45 #sec
15 dist1 = 50 #meters
16 dist2 = 615 #meters
17 slope = (615-50)/(45-30) #rise over run
18 intercept = dist1 - time1 * slope
19 time3 = 37 #seconds
20 new_dist = time3 * slope + intercept
21 print(new_dist)
```

```
1 C:\Users\abdul\Anaconda3\python.exe "D:/School/Engr 102
  Lab Assignments/Lab 2/Act 3.py"
2 313.66666666666665
3
4 Process finished with exit code 0
5
```