

ActivitiesToplevel

dan@dan-Alienware-m15: ~/Documents/School/CIS110/Excercises/Ch4

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dan@dan-Alienware-m15:~\$ cd Documents/School/CIS110/Projects/Wk4/

dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects/Wk4\$ python3 dominguez_program4.py

This program creates an American Flag using graphics.py

Daniel Dominguez

CIS110 Program 1

Tue Jun 11 18:50:03 2019

dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects/Wk4\$ cd ..

dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects\$ ls

dominguez_Program3.zip template.py Wk1 Wk2 Wk3 Wk4

dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects\$ cd .

dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects\$ cd ..

dan@dan-Alienware-m15:~/Documents/School/CIS110\$ cd Excercises/

dan@dan-Alienware-m15:~/Documents/School/CIS110/Excercises\$ ls

Ch1 Ch2 Ch3 Ch4 Templates

dan@dan-Alienware-m15:~/Documents/School/CIS110/Excercises\$ cd Ch4

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Ch4ex01.py Ch4ex05.pdf Ch4ex07.py Ch4ex09.pdf graphics.py

Ch4ex02.pdf Ch4ex05.py Ch4ex08.pdf Ch4ex09.py graphics.pyc

Ch4ex02.py Ch4ex07.pdf Ch4ex08.py dominguez_program4.py __pycache__

dan@dan-Alienware-m15:~/Documents/School/CIS110/Excercises/Ch4\$ python3 Ch4ex07.py

This program computes the intersection

of a circle and a borizontal line

Enter the radius of the circle: 2

Enter the y-inctercept of the line: 3

Traceback (most recent call last):

File "Ch4ex07.py", line 31, in <module>

main()

File "Ch4ex07.py", line 18, in main

x=math.sqrt(r*r-yi*yi)

ValueError: math domain error

dan@dan-Alienware-m15:~/Documents/School/CIS110/Excercises/Ch4\$ python3 Ch4ex07.py

This program computes the intersection

of a circle and a borizontal line

Enter the radius of the circle: 10

Enter the y-inctercept of the line: 2

x values of intersection are -9.797958971132712 9.797958971132712

Tue 19:05

Ch4ex07.py

~/Documents/School/CIS110/Excercises/Ch4

Save

from graphics import*

import math

def main():

print("This program computes the intersection")

print("of a circle and a borizontal line")

print("")

r=float(input("Enter the radius of the circle: "))

yi=float(input("Enter the y-inctercept of the line: "))

win=GraphWin("Circle Intersection")

win.setCoords(-10,-10,10,10)

Circle(Point(0,0),r).draw(win)

Line(Point(-10,yi),Point(10,yi)).draw(win)

x=math.sqrt(r*r-yi*yi)

print("x values of intersection are", -x,x)

p1=Circle(Point(x,yi),0.25)

p1.setOutline('red')

p1.setFill('red')

p1.draw(win)

p2=p1.clone()

p2.move(-2*x,0)

p2.draw(win)

win.getMouse()

main()

Circle Intersection

Python Tab Width: 8 Ln 20, Col 9 INS