

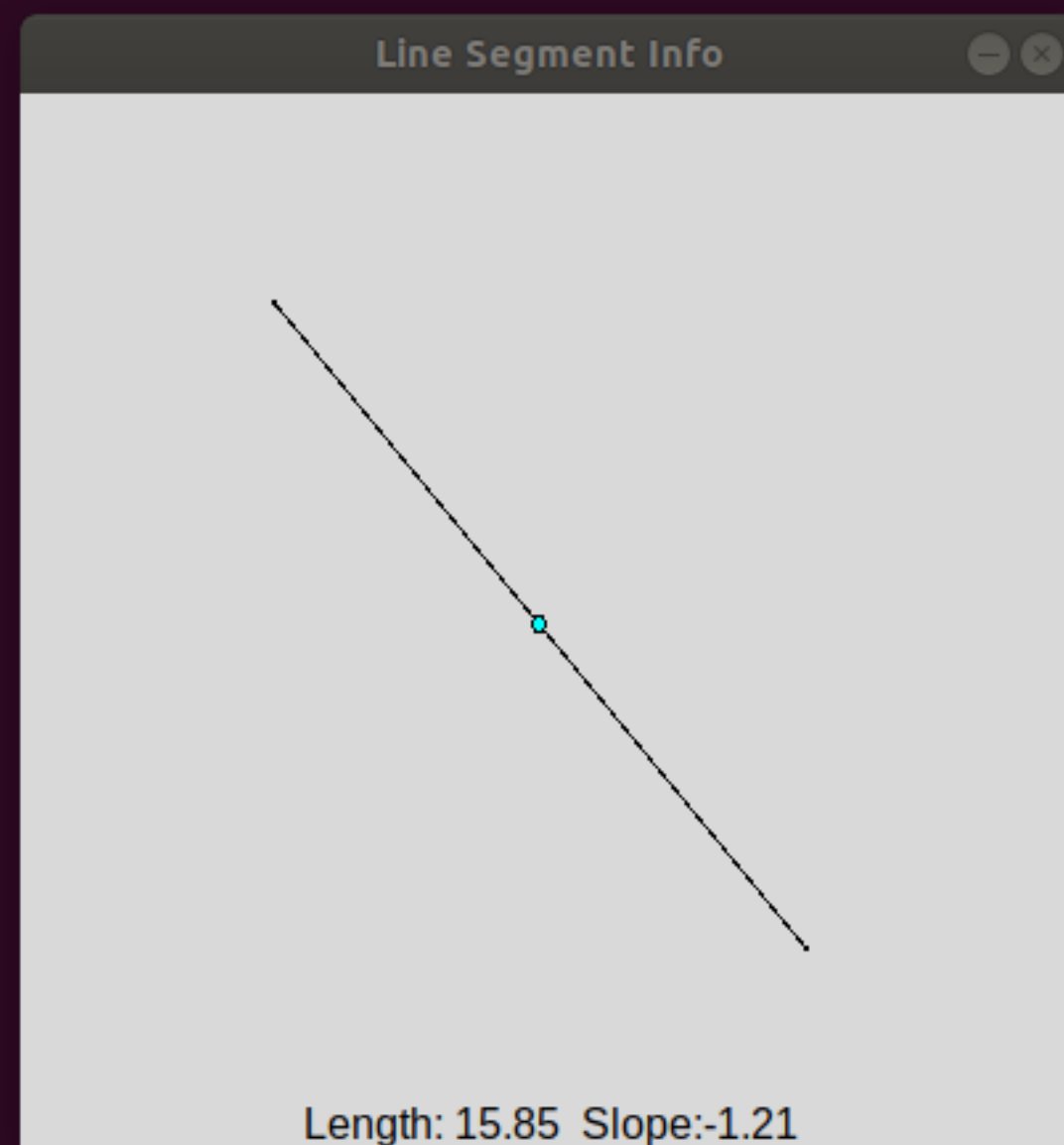
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dan@dan-Alienware-m15:~/Documents/School/CIS110/Excercises/Ch4\$ python3 Ch4ex08.py

This program allows the user to draw a line segment, then displays info  
of the line segment

□



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```
from graphics import*
import math
```

```
def main():
```

```
    print("This program allows the user to draw a line segment, then displays info")
    print("of the line segment")
    print("")
```

```
    win=GraphWin("Line Segment Info",400,400)
    win.setCoords(-10,-10,10,10)
```

```
    msg=Text(Point(0,-9.5),"Click on two points of a line segment.").draw(win)
    p1=win.getMouse()
    p1.draw(win)
    p2=win.getMouse()
    p2.draw(win)
```

```
    line=Line(p1,p2)
    line.draw(win)
```

```
    mark=Circle(line.getCenter(),0.15)
    mark.setFill('cyan')
    mark.draw(win)
```

```
    dx=p2.getX()-p1.getX()
    dy=p2.getY()-p1.getY()
    slope=float(dy/dx)
    length=math.sqrt(dx*dx+dy*dy)
```

```
    msg.setText("Length: "+str(round(length,2))+ " Slope: "+str(round(slope,2)))
    win.getMouse()
    win.close()
```

```
main()
```

```
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~
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```