class polygon():

def info(self):

print("In geometry, a polygon can be defined as a flat or plane, two-dimensional with straight sides.")

class octagon(polygon):

def \_\_init\_\_(self,a):

self.\_\_side=a

def draw(self):

import turtle

turtle.forward(self.\_\_side)

turtle.left(45)

turtle.forward(self.\_\_side)

turtle.left(45)

turtle.forward(self.\_\_side)

turtle.left(45)

turtle.forward(self.\_\_side)

turtle.left(45)

turtle.forward(self.\_\_side)

turtle.left(45)

turtle.forward(self.\_\_side)

turtle.left(45)

turtle.forward(self.\_\_side)

turtle.left(45)

turtle.forward(self.\_\_side)

turtle.left(45)

def area(self):

area=8\*self.\_\_side\*self.\_\_side/(4\*0.414213)

return(area)

def perimeter(self):

peri=self.\_\_side\*8

return(peri)

