

Recursion – An Example

```
import turtle
```

```
def draw_shape(n, size, num_sides):  
    for i in range(num_sides):  
        turtle.forward(size)  
        if n > 0:  
            draw_shape(n - 1, size / 3, num_sides)  
        turtle.backward(size)  
        turtle.left(360/num_sides)
```

Recursive case

```
turtle.tracer(False)  
turtle.hideturtle()  
draw_shape(4, 200, 6)  
turtle.tracer(True)
```

Start drawing

```
turtle.done()
```

