

```
In [2]: from openscad1 import *
```

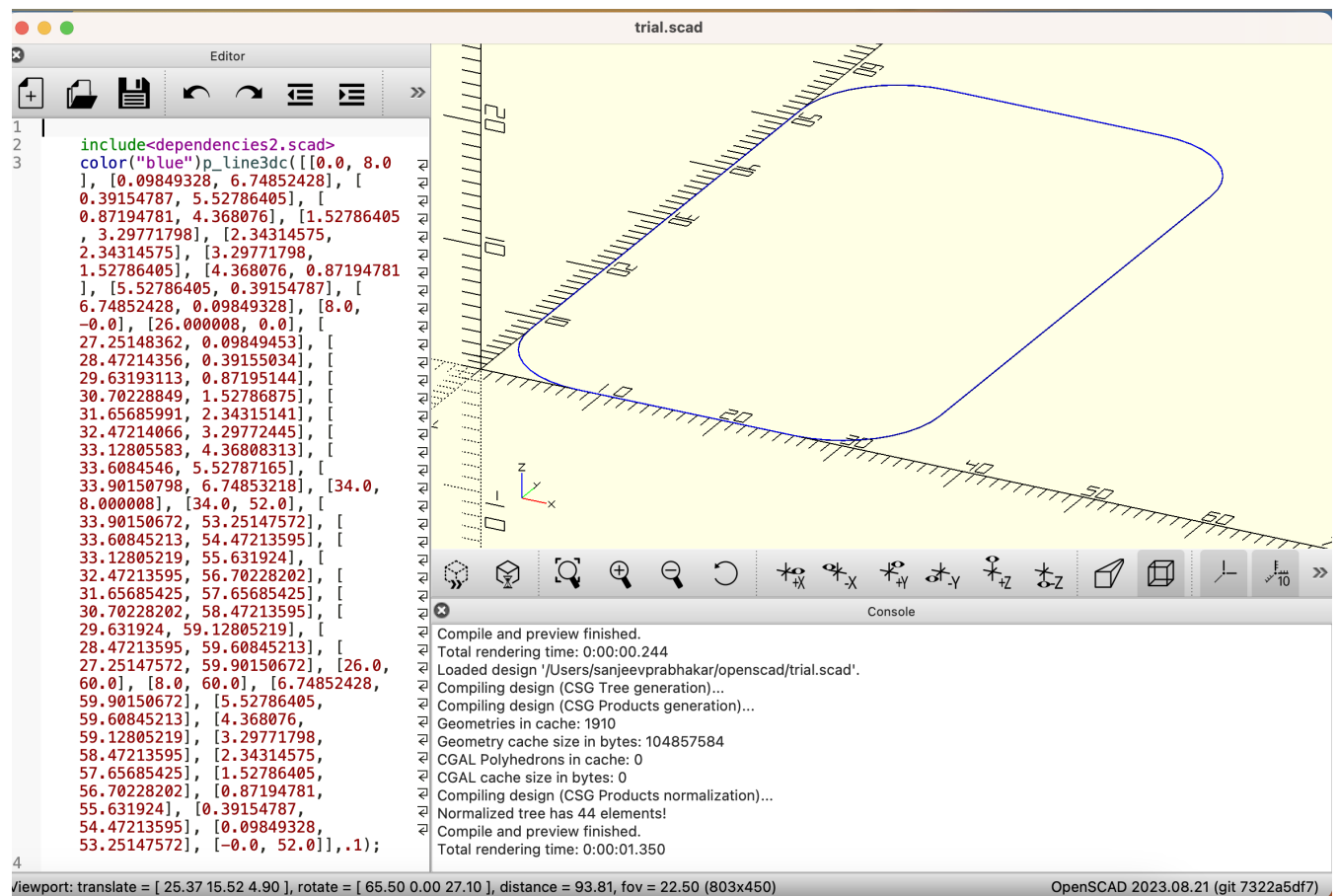
Approach 2 (offset method)

create a 2d section

```
In [3]: sec=cr(pts1([[0,0,8],[34,0,8],[0,60,8],[-34,0,8]]),10)

with open('/users/sanjeevprabhakar/openscad/trial.scad', 'w+') as f:
    f.write(f'''
        include<dependencies2.scad>
        color("blue")p_line3dc({sec},.1);

    ''')
```



draw an offset pattern where x-coordinate represent value to offset the section and y-coordinate represent location of section in z-coordinate.

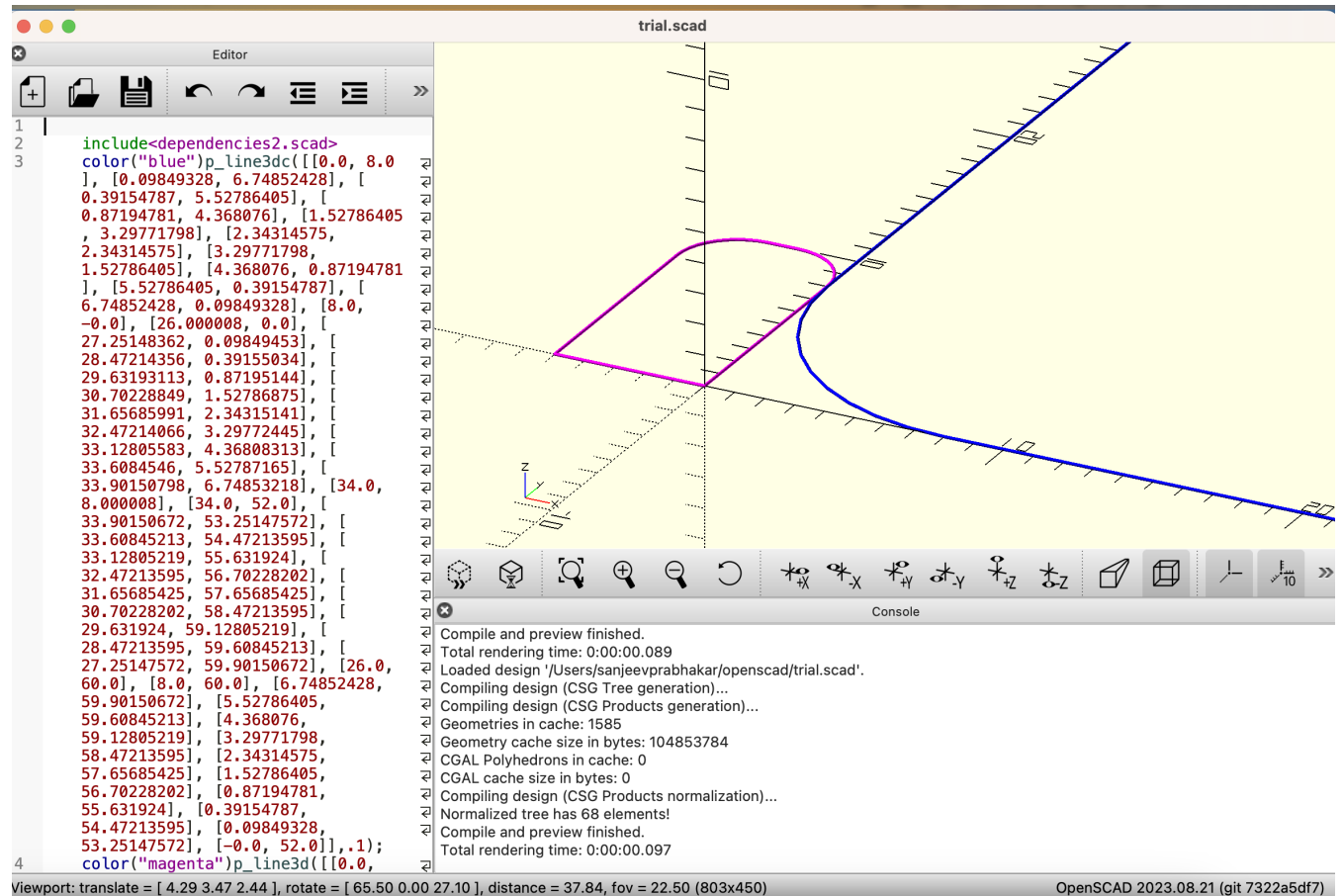
example: cylinder can be drawn by drawing 2 circles, one in the xy plane and other by translating the circle to a required height

```
In [7]: path=cr(pts1([[0,0],[0,10,2],[-5,0,2],[0,-10]]),10)
path=path+[path[0]]

with open('/users/sanjeevprabhakar/openscad/trial.scad','w+') as f:
    f.write(f'''
include<dependencies2.scad>
color("blue")p_line3dc({sec},.1);
color("magenta")p_line3d({path},.1);

''')

# please note that 'magenta' line x-coordinates are offset values of the bigger section
# y-coordinates are the height values
```

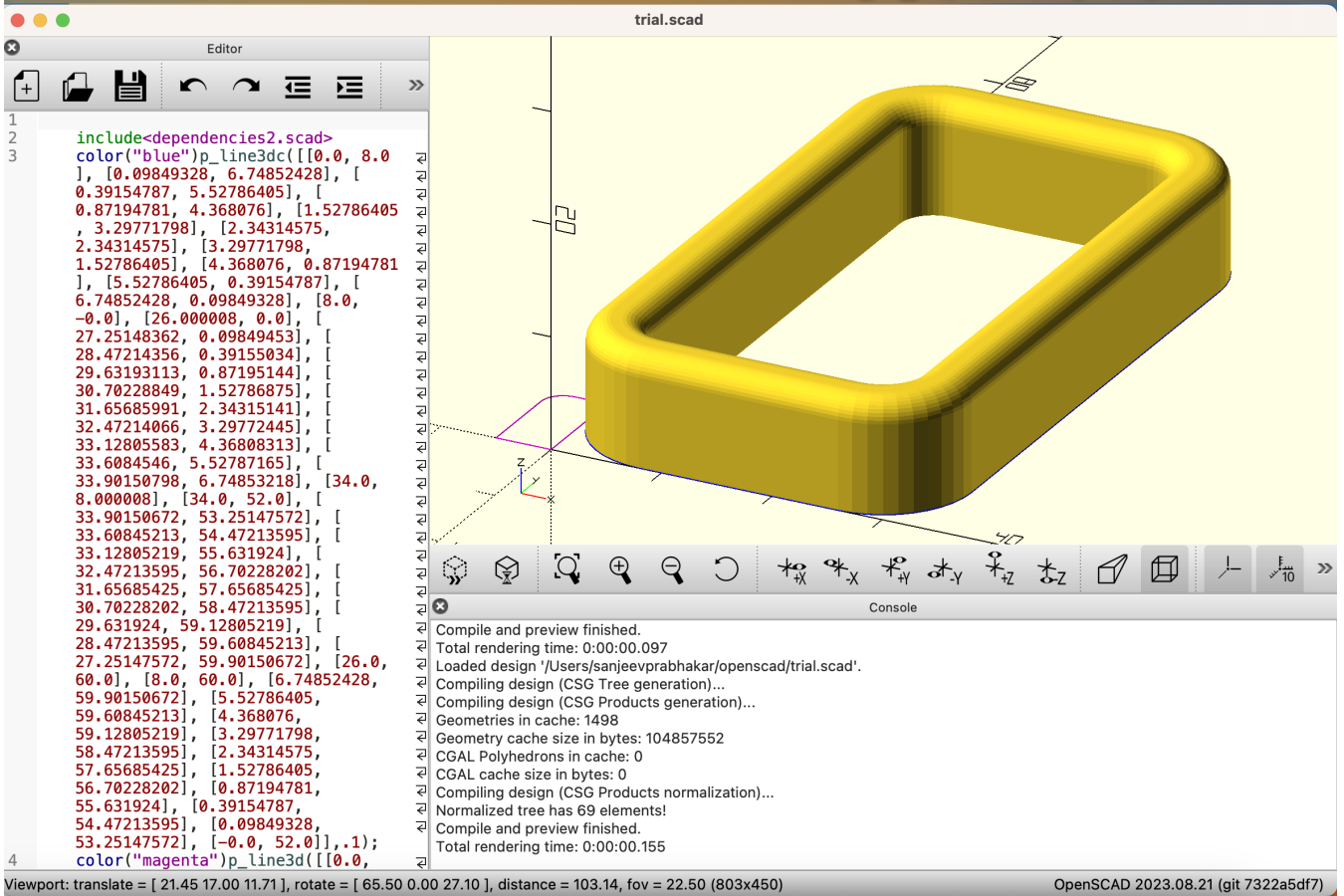


Create a solid by offsetting the section

```
In [8]: sol=[translate([0,0,y],offset(sec,x)) for (x,y) in path]
```

```
with open('/users/sanjeevprabhakar/openscad/trial.scad','w+') as f:
    f.write(f'''
include<dependencies2.scad>
color("blue")p_line3dc({sec},.1);
color("magenta")p_line3d({path},.1);
{swp_c(sol)}

''')
```



```

In [9]: with open('/users/sanjeevprabhakar/openscad/trial.scad','w+') as f:
        f.write(f'''
        include<dependencies2.scad>
        color("blue")p_line3dc({sec},.1);
        color("magenta")p_line3d({path},.1);
        %{swp_c(sol)}
        color("green")for(p={sol})p_line3dc(p,.1);

        ''')

```

