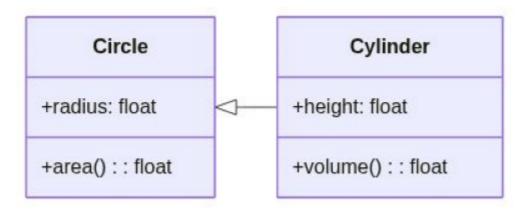
```
In [2]: #Κοπ ππη генерации диаграмм
import base64
import io, requests
from IPython.display import Image, display
from PIL import Image as im
import matplotlib.pyplot as plt

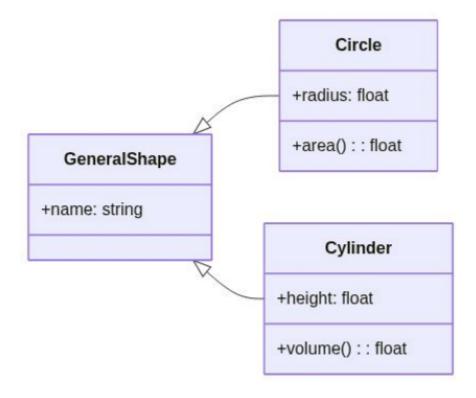
def mm(graph):
    graphbytes = graph.encode("utf8")
    base64_bytes = base64_urlsafe_b64encode(graphbytes)
    base64_string = base64_bytes.decode("ascii")
    img = im.open(io.BytesIO(requests.get('https://mermaid.ink/img/' + baplt.imshow(img)
    plt.axis('off') # allow to hide axis
    plt.savefig('image.png', dpi=1200)
```

## Прямое наследование: Cylinder как подкласс Circle.



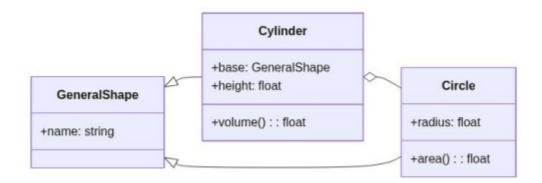
## Общее базовое тело

```
In [4]: mm('''
    classDiagram
         direction LR
         class GeneralShape {
               +name: string
          }
          class Circle {
```



## Композиция: Cylinder содержит Circle

```
mm ( ' ' '
In [5]:
         classDiagram
             direction LR
             class Circle {
                 +radius: float
                 +area(): float
             class Cylinder {
                 +base: GeneralShape
                 +height: float
                 +volume(): float
             class GeneralShape {
                 +name: string
             Cylinder o-- Circle
             GeneralShape <|-- Circle</pre>
             GeneralShape <|-- Cylinder</pre>
```



## Интерфейс: ICircularShape реализуется и Circle, и Cylinder

