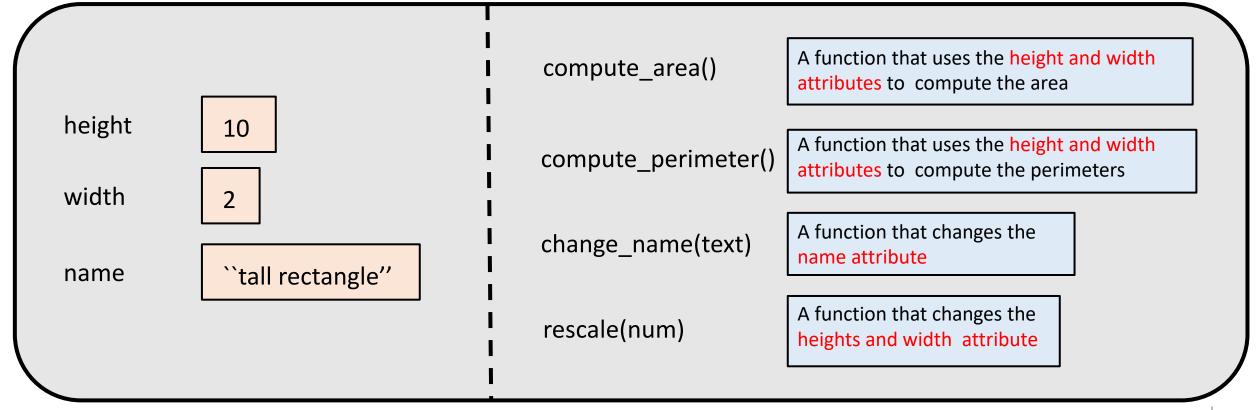
Objects and classes



A Rectangle object

3 ATTRIBUTES

4 METHODS

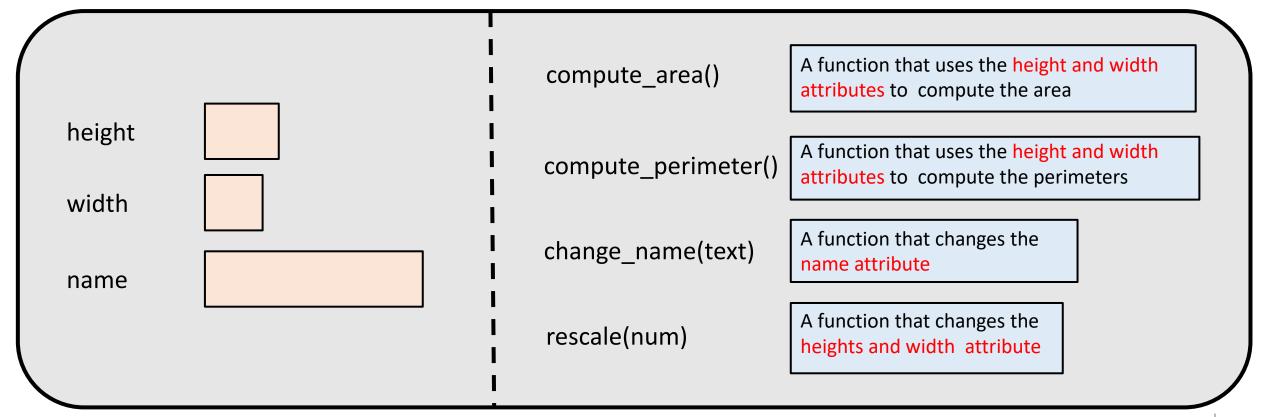




To create an object you first make a TEMPLATE which describe what are the attribute and methods

3 ATTRIBUTES

4 METHODS





```
class Rectangle:
                                                     def __init__(self,x,y):
                                                         self.height = x
                                                         self.width = y
3 attributes height, width and name
                                                         self.name = 'not named yet'
                                                     def compute area(self):
                                                         A = self.height * self.width
                                                         return A
                                                     def compute perimeter(self):
                                                         P = 2 * self.height + 2 * self.width
                                                         return P
                                                     def change name(self,text):
                                                         self.name = text
                                                     def rescale(self,scale):
                                                         self.height = self.height * scale
                                                         self.width = self.width * scale
```



```
class Rectangle:
                                           def __init__(self,x,y):
                                               self.height = x
                                               self.width = y
                                               self.name = 'not named yet'
                                           def compute_area(self):
                                              A = self.height * self.width
                                               return A
                                           def compute_perimeter(self):
                                               P = 2 * self.height + 2 * self.width
                                               return P
4 methods
                                           def change_name(self,text):
                                               self.name = text
                                           def rescale(self,scale):
                                               self.height = self.height * scale
                                               self.width = self.width * scale
```



```
class Rectangle:
    def _init__(self,x,y):
        self.height = x
        self.width = y
        self.name = 'not named yet'
    def compute area(self):
        A = self.height * self.width
        return A
    def compute perimeter(self):
        P = 2 * self.height + 2 * self.width
        return P
    def change name(self,text):
        self.name = text
    def rescale(self,scale):
        self.height = self.height * scale
        self.width = self.width * scale
```

Once the template is made, You can instantiate multiple objects

```
rec = Rectangle(10,2)
sq = Rectangle(3,3)
```



