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**Exercise 9**

**Submission:**

* Name your file as ex9.doc
* Include the source code and a screenshot of the output for each question in your word doc
* One submission is needed from each group

Following the example of the Circle class, design a class named Rectangle to represent a rectangle. The class contains:

* Two data fields named width and height.
* A constructor that creates a rectangle with the specified width and height. The default values are 1 and 2 for the width and height, respectively.
* A method named getArea() that returns the area of this rectangle.
* A method named getPerimeter() that returns the perimeter.

Write a test program that creates two Rectangle objects—one with width 4 and height 40 and the other with width 3.5 and height 35.7. Display the width, height, area, and perimeter of each rectangle in this order.

class Rectangle:

    def \_\_init\_\_(self, width=1.0, height=2.0):

        self.width = width

        self.height = height

    def getArea(self):

        return self.width \* self.height

    def getPerimeter(self):

        return (self.width+self.height) \*2

def main():

    rectangle1=Rectangle(4,40)

    print("the area and the perimeter of rectangle with width",rectangle1.width," and height",rectangle1.height,"is",rectangle1.getArea(),"and",rectangle1.getPerimeter(),"resepectively")

    rectangle2=Rectangle(3.5,35.7)

    print("The area and perimeter of the rectange with width",rectangle2.width," and height",rectangle2.height,"is",rectangle2.getArea(),"and",rectangle2.getPerimeter(),"resepectively")

main()

