

```

#Class Rectangle is created
class Rectangle:
#__init__ constructor is created with self and two arguments. width and
height take value of 0
    def __init__(self, width=0, height=0):
#width is stored into self.width
        self.width = width
#height is stored into self.width
        self.height = height
#self.width multiplied by self.height will be now stored in self.area
        self.area = self.width*self.height
#2 times the self.height added by 2 times self.width is stored in
self.perimeter
        self.perimeter = 2*self.height + 2*self.width

# function getStats is defined
    def getStats(self):
#return statement to print out all of the width, height, area, and
perimeter from the function above. It is printed with {}\n and .format for
format purposes
        return ("width: {}\n".format(self.width) +
            "height: {}\n".format(self.height) +
            "area: {}\n".format(self.height*self.width) +
            "perimeter: {}".format(2*self.height + 2*self.width))
#this is all for the main function that was given
def main():
    print ("Rectangle a:")
    a = Rectangle(5, 7)
    print ("area:          {}".format(a.area))
    print ("perimeter: {}".format(a.perimeter))

    print ("")
    print ("Rectangle b:")
    b = Rectangle()
    b.width = 10
    b.height = 20
    print (b.getStats())
#main() is called at the bottom
main()

```