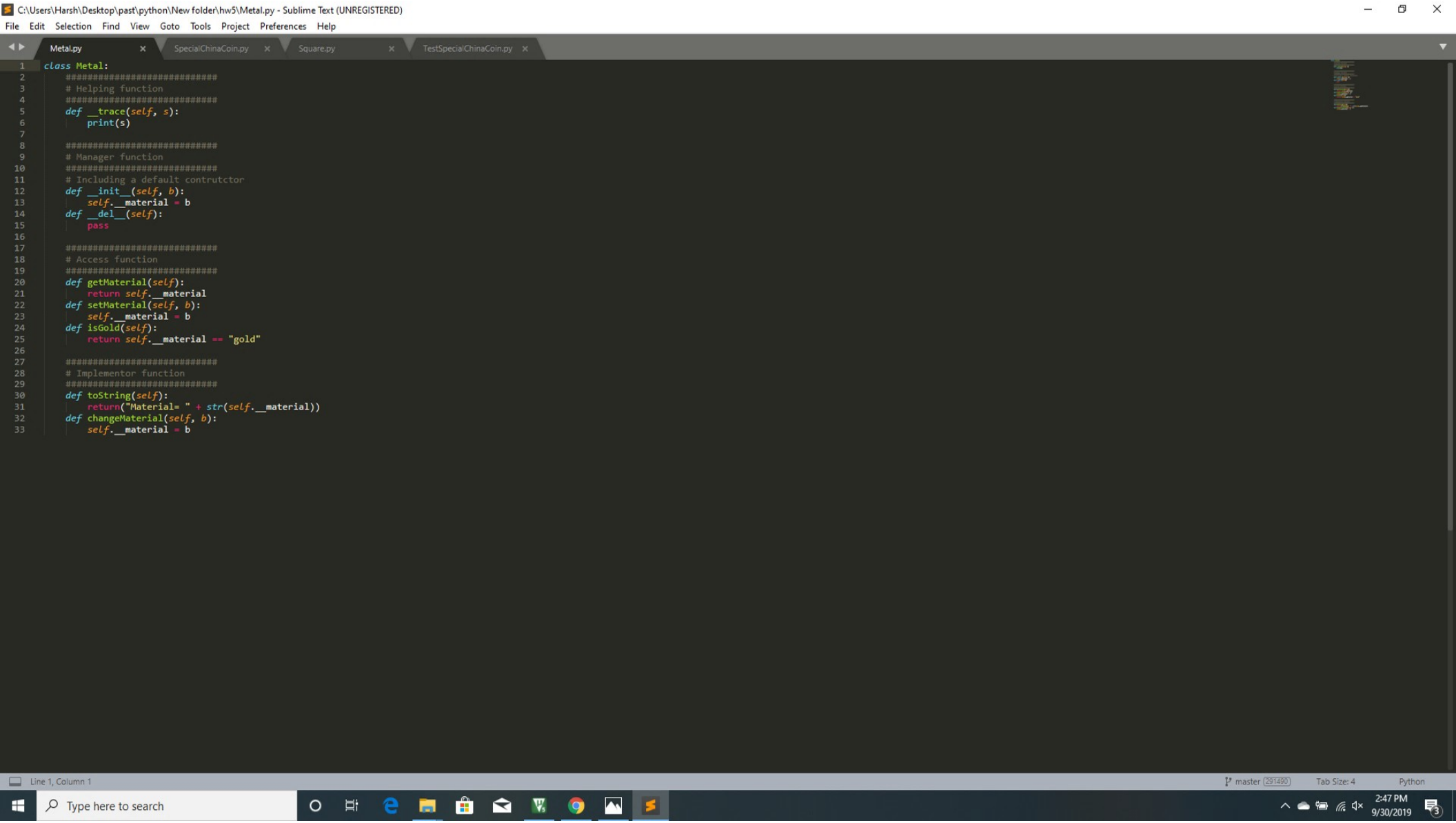
C:\Users\Harsh\Desktop\past\python\New folder\hw5\Metal.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Metal.py
SpecialChinaCoin.py
Square.py
TestSpecialChinaCoin.py
class Metal:
############################
Helping function
############################
def __trace(self, s):
print(s)
############################
Manager function
############################
# Including a default contrutctor
def __init__(self, b):
self.__material = b
def __del__(self):
pass
############################
Access function
############################
def getMaterial(self):
return self.__material
def setMaterial(self, b):
self.__material = b
def isGold(self):
return self.__material == "gold"
############################
Implementor function
############################
def toString(self):
return("Material= " + str(self.__material))
def changeMaterial(self, b):
self.__material = b
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master 291490
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Python
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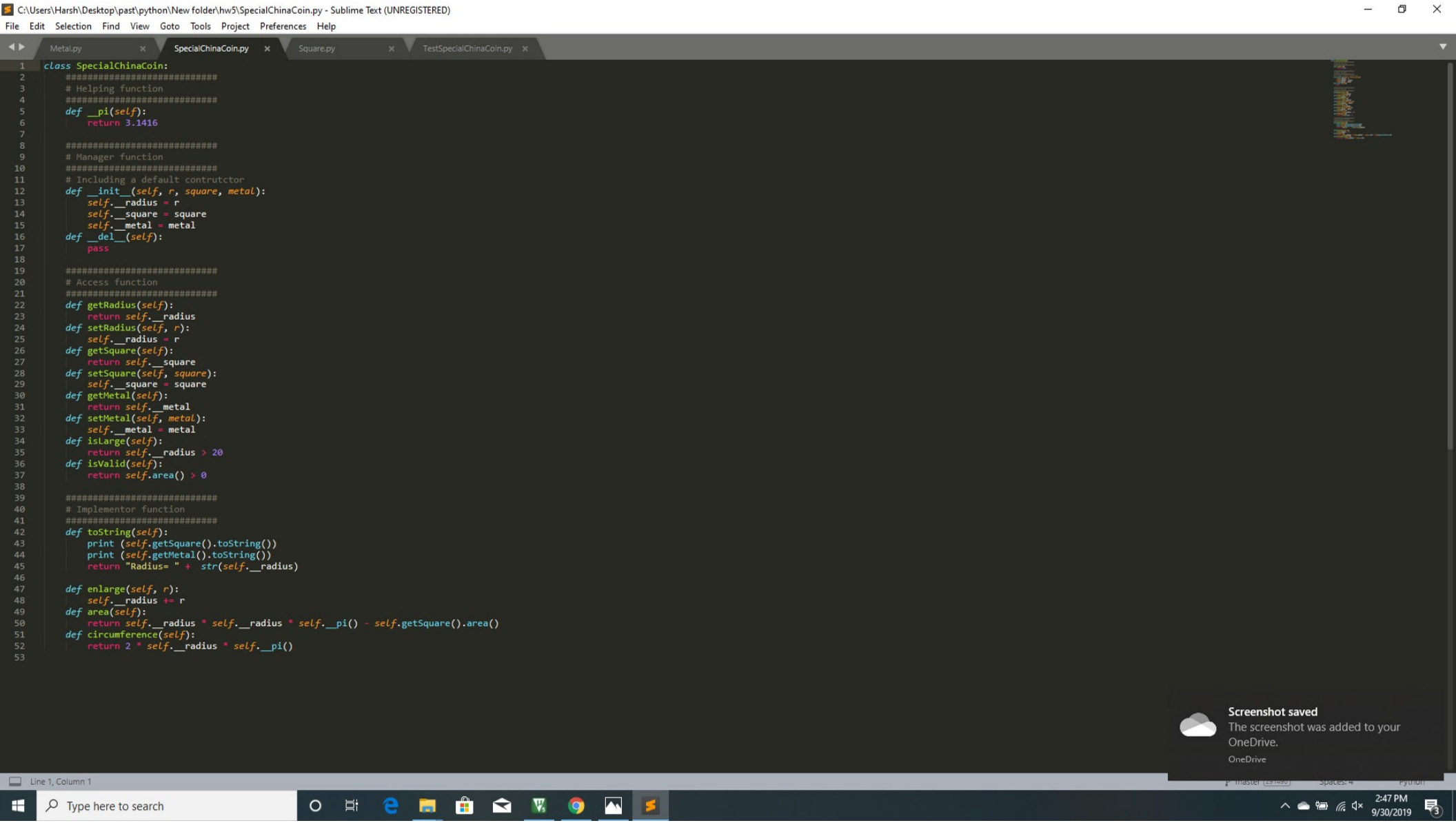
C:\Users\Harsh\Desktop\past\python\New folder\hw5\SpecialChinaCoin.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Metal.py
SpecialChinaCoin.py
Square.py
TestSpecialChinaCoin.py
class SpecialChinaCoin:
############################
Helping function
############################
def __pi(self):
return 3.1416
############################
Manager function
############################
# Including a default contrutctor
def __init__(self, r, square, metal):
self.__radius = r
self.__square = square
self.__metal = metal
def __del__(self):
pass
############################
Access function
############################
def getRadius(self):
return self.__radius
def setRadius(self, r):
self.__radius = r
def getSquare(self):
return self.__square
def setSquare(self, square):
self.__square = square
def getMetal(self):
return self.__metal
def setMetal(self, metal):
self.__metal = metal
def isLarge(self):
return self.__radius > 20
def isValid(self):
return self.area() > 0
############################
Implementor function
############################
def toString(self):
print (self.getSquare().toString())
print (self.getMetal().toString())
return "Radius= " + str(self.__radius)
def enlarge(self, r):
self.__radius += r
def area(self):
return self.__radius * self.__radius * self.__pi() - self.getSquare().area()
def circumference(self):
return 2 * self.__radius * self.__pi()
Screenshot saved
The screenshot was added to your OneDrive.
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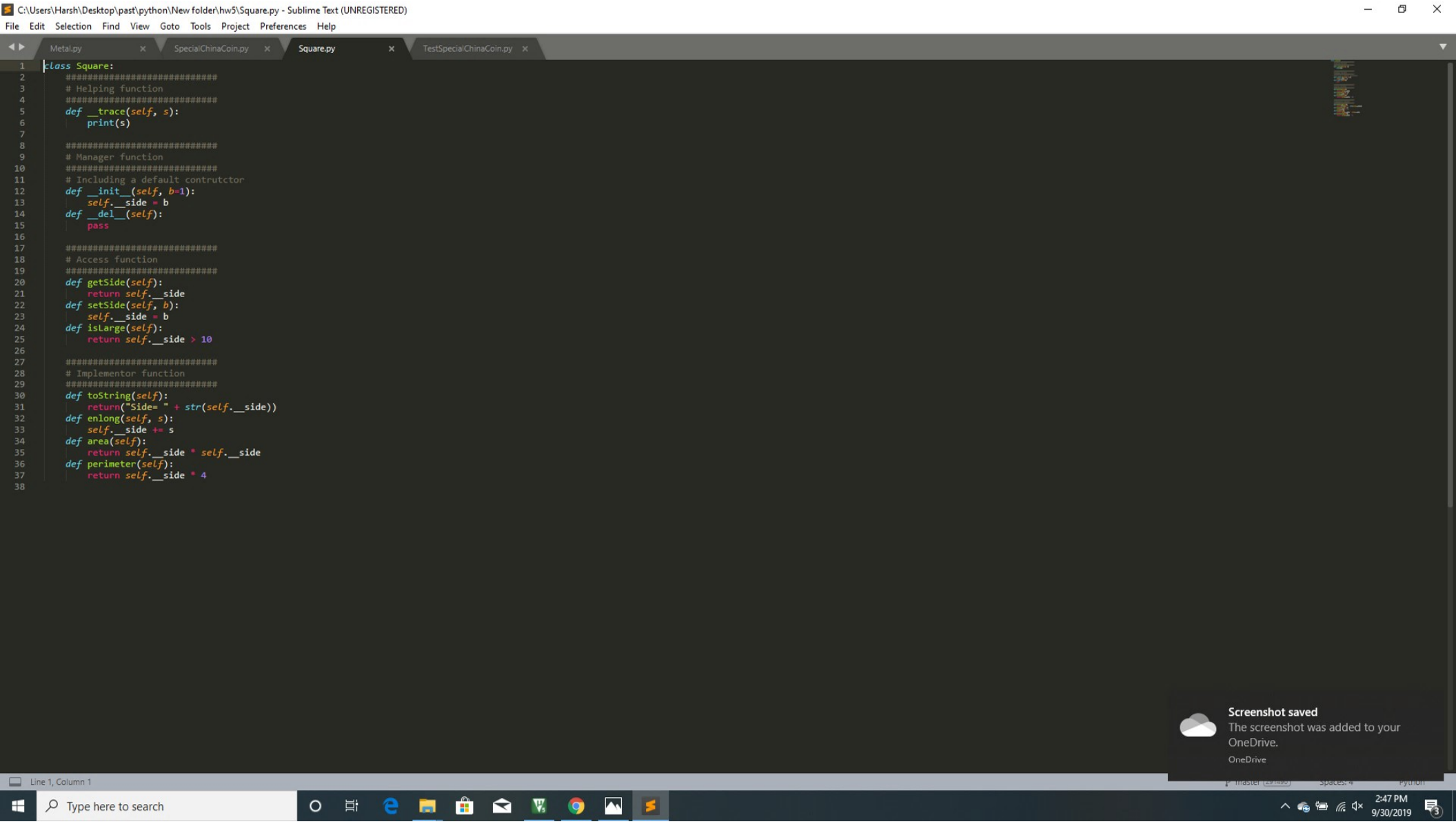
C:\Users\Harsh\Desktop\past\python\New folder\hw5\Square.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Metal.py
SpecialChinaCoin.py
Square.py
TestSpecialChinaCoin.py
class Square:
############################
Helping function
############################
def __trace(self, s):
print(s)
############################
Manager function
############################
# Including a default contrutctor
def __init__(self, b=1):
self.__side = b
def __del__(self):
pass
############################
Access function
############################
def getSide(self):
return self.__side
def setSide(self, b):
self.__side = b
def isLarge(self):
return self.__side > 10
############################
Implementor function
############################
def toString(self):
return("Side= " + str(self.__side))
def enlong(self, s):
self.__side += s
def area(self):
return self.__side * self.__side
def perimeter(self):
return self.__side * 4
Screenshot saved
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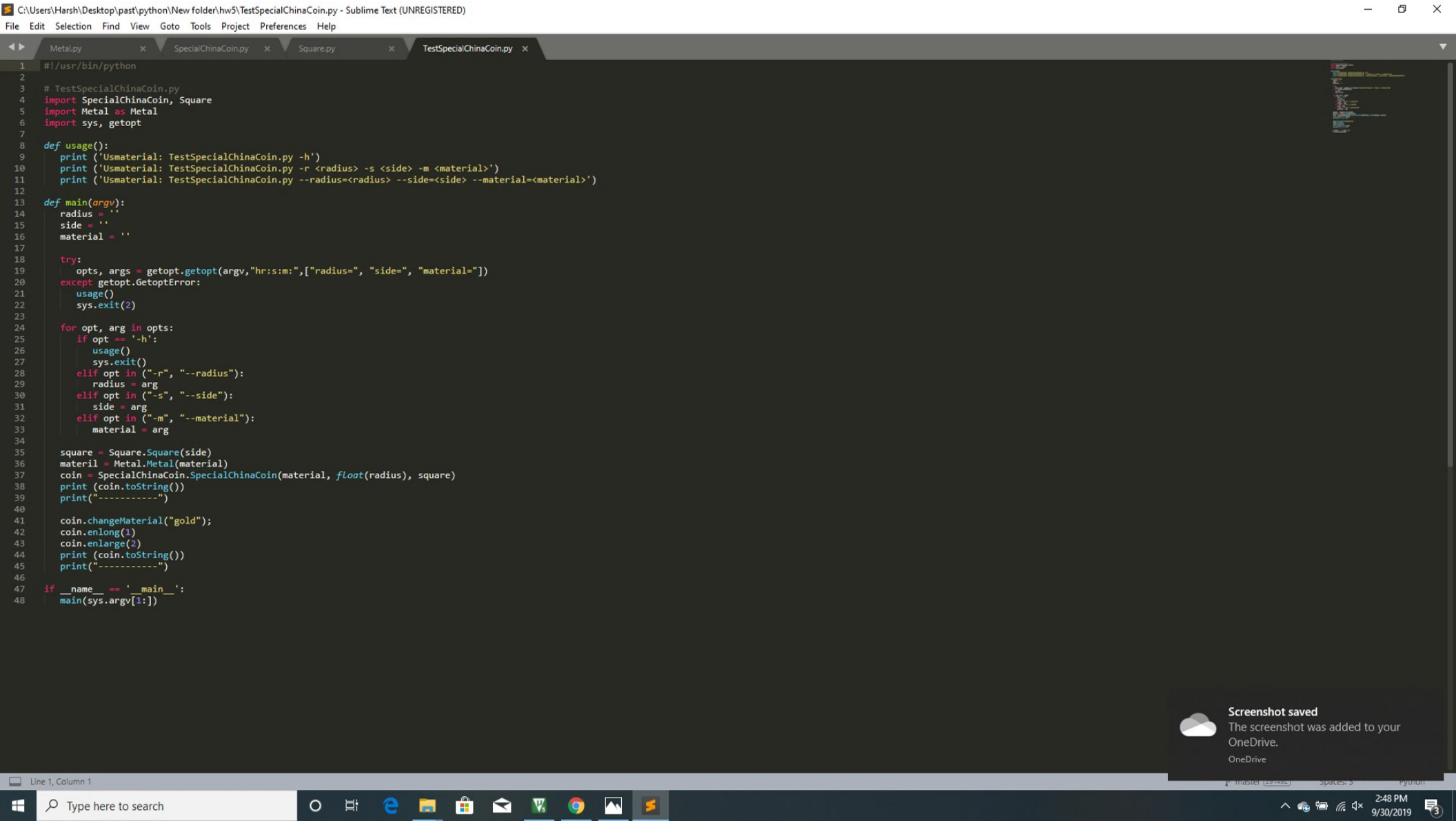
C:\Users\Harsh\Desktop\past\python\New folder\hw5\TestSpecialChinaCoin.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Metal.py
SpecialChinaCoin.py
Square.py
TestSpecialChinaCoin.py
#!/usr/bin/python
# TestSpecialChinaCoin.py
import SpecialChinaCoin, Square
import Metal as Metal
import sys, getopt
def usage():
print ('Usmaterial: TestSpecialChinaCoin.py -h')
print ('Usmaterial: TestSpecialChinaCoin.py -r <radius> -s <side> -m <material>')
print ('Usmaterial: TestSpecialChinaCoin.py --radius=<radius> --side=<side> --material=<material>')
def main(argv):
radius = ''
side = ''
material = ''
try:
opts, args = getopt.getopt(argv,"hr:s:m:",["radius=", "side=", "material="])
except getopt.GetoptError:
usage()
sys.exit(2)
for opt, arg in opts:
if opt == '-h':
usage()
sys.exit()
elif opt in ("-r", "--radius"):
radius = arg
elif opt in ("-s", "--side"):
side = arg
elif opt in ("-m", "--material"):
material = arg
square = Square.Square(side)
materil = Metal.Metal(material)
coin = SpecialChinaCoin.SpecialChinaCoin(material, float(radius), square)
print (coin.toString())
print("-----------")
coin.changeMaterial("gold");
coin.enlong(1)
coin.enlarge(2)
print (coin.toString())
print("-----------")
if __name__ == '__main__':
main(sys.argv[1:])
Screenshot saved
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