C:\Users\Harsh\Desktop\past\python\New folder\hw4\Head.py - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

Eye.py | Head.py | Mouth.py | Nose.py | TestHead.py

```
class Head:
    ############################
    # Helping function
    ############################
    def __pi(self):
        return 3.1416

    ############################
    # Manager function
    ############################
    # Including a default contructor
    def __init__(self,Radius,eye,nose,mouth):
        self.__Radius = Radius
        self.__eye = eye
        self.__nose = nose
        self.__mouth = mouth
    def __del__(self):
        pass

    ############################
    # Access function
    ############################
    def getRadius(self):
        return self.__Radius
    def setRadius(self, R):
        self.__Radius = R
    def getEye(self):
        return self.__eye
    def setEye(self, eye):
        self.__eye = eye
    def getNose(self):
        return self.__nose
    def setNose(self, nose):
        self.__nose = nose
    def getMouth(self):
        return self.__mouth
    def setMouth(self, mouth):
        self.__mouth = mouth
    def isNormal(self):
        return self.__left_eye == self.__right_eye

    ############################
    # Implementor function
    ############################
    def toString(self):
        print (self.getEye().toString())
        print (self.getNose().toString())
        print (self.getMouth().toString())
        return "Radius= " + str(self.__Radius)

    def headAche(self):
        self.__nose = 1
```

Screenshot saved
The screenshot was added to your OneDrive.
OneDrive

Line 1, Column 1

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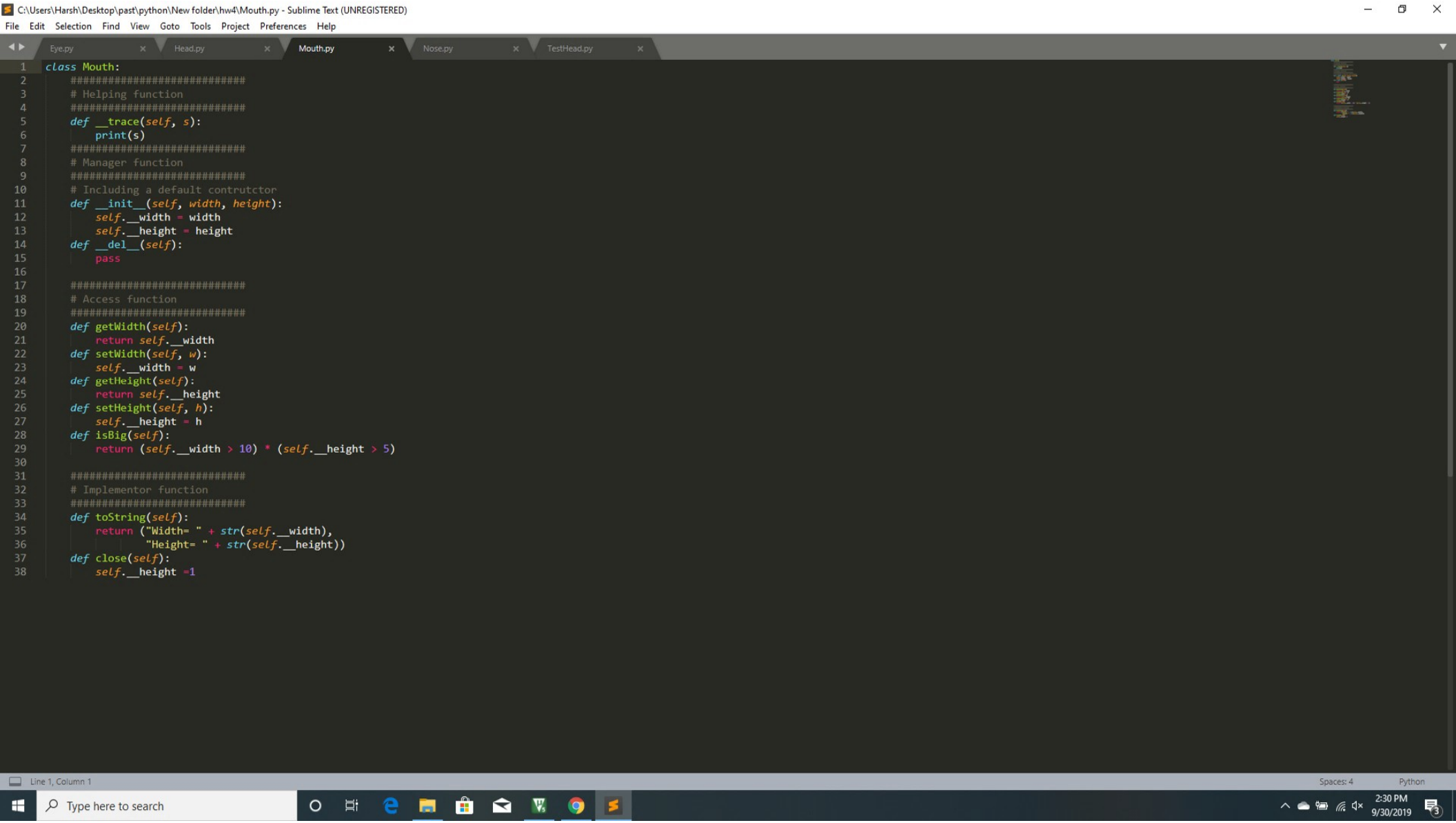
9/30/2019


C:\Users\Harsh\Desktop\past\python\New folder\hw4\Mouth.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Eye.py
Head.py
Mouth.py
Nose.py
TestHead.py
class Mouth:
############################
Helping function
############################
def __trace(self, s):
print(s)
############################
Manager function
############################
# Including a default contrutctor
def __init__(self, width, height):
self.__width = width
self.__height = height
def __del__(self):
pass
############################
Access function
############################
def getWidth(self):
return self.__width
def setWidth(self, w):
self.__width = w
def getHeight(self):
return self.__height
def setHeight(self, h):
self.__height = h
def isBig(self):
return (self.__width > 10) * (self.__height > 5)
############################
Implementor function
############################
def toString(self):
return ("Width= " + str(self.__width),
"Height= " + str(self.__height))
def close(self):
self.__height =1
Line 1, Column 1
Spaces: 4
Python
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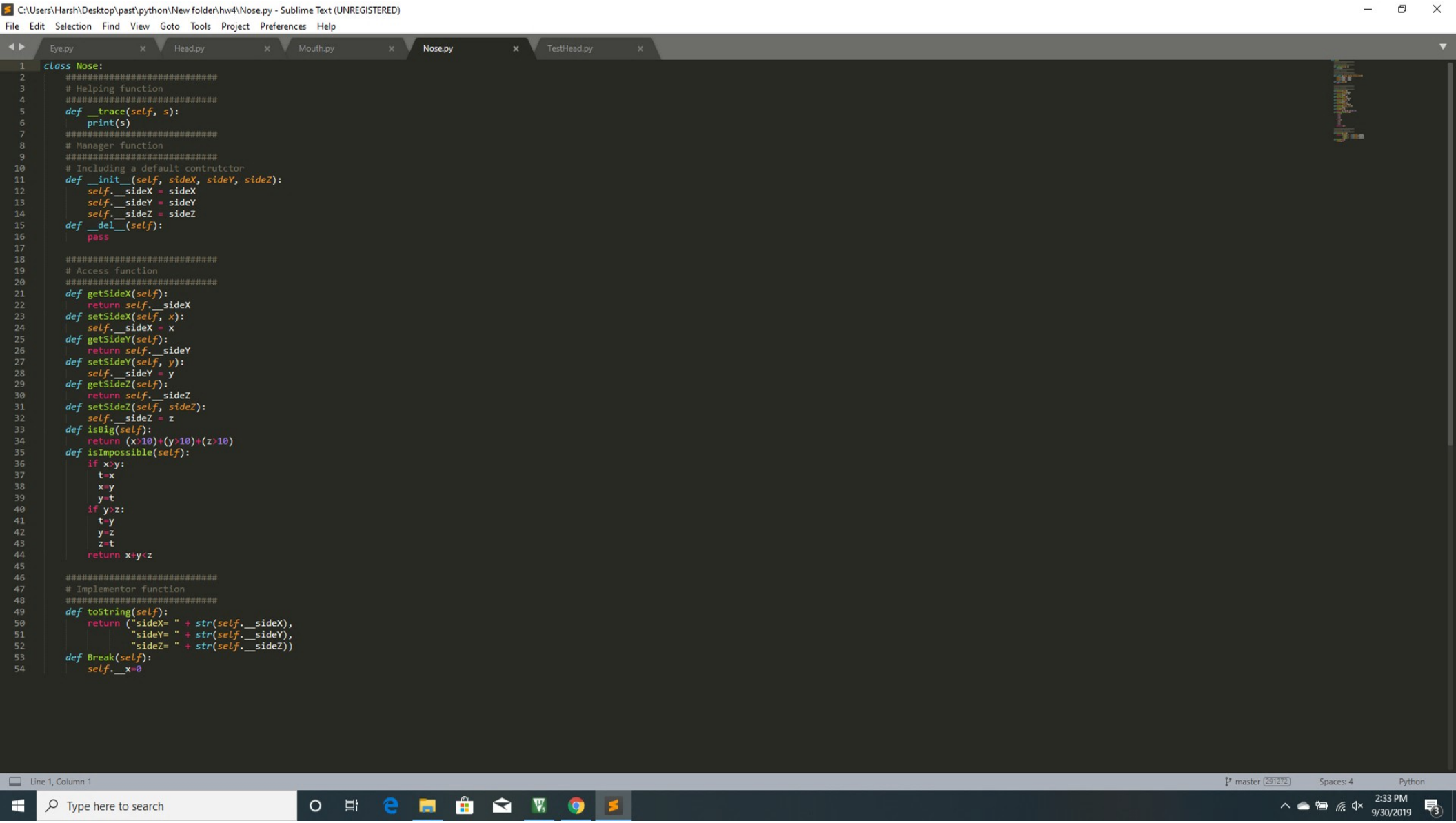
2:30 PM
9/30/2019


C:\Users\Harsh\Desktop\past\python\New folder\hw4\Nose.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Eye.py
Head.py
Mouth.py
Nose.py
TestHead.py
class Nose:
############################
Helping function
############################
def __trace(self, s):
print(s)
############################
Manager function
############################
# Including a default contrutctor
def __init__(self, sideX, sideY, sideZ):
self.__sideX = sideX
self.__sideY = sideY
self.__sideZ = sideZ
def __del__(self):
pass
############################
Access function
############################
def getSideX(self):
return self.__sideX
def setSideX(self, x):
self.__sideX = x
def getSideY(self):
return self.__sideY
def setSideY(self, y):
self.__sideY = y
def getSideZ(self):
return self.__sideZ
def setSideZ(self, sideZ):
self.__sideZ = z
def isBig(self):
return (x>10)+(y>10)+(z>10)
def isImpossible(self):
if x>y:
t=x
x=y
y=t
if y>z:
t=y
y=z
z=t
return x+y<z
############################
Implementor function
############################
def toString(self):
return ("sideX= " + str(self.__sideX),
"sideY= " + str(self.__sideY),
"sideZ= " + str(self.__sideZ))
def Break(self):
self.__x=0
Line 1, Column 1
master 291272
Spaces: 4
Python
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9/30/2019

C:\Users\Harsh\Desktop\past\python\New folder\hw4\TestHead.py - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

Eye.py | Head.py | Mouth.py | Nose.py | TestHead.py

```
#!/usr/bin/python

# TestHead.py
import Head, Mouth, Nose, Eye
import sys, getopt

def usage():
   print ('Usage: TestHead.py -n')
   print ('Usage: TestHead.py -x<sideX> -y<sideY> -z<sideZ> -w<width> -h<height> -R<Radius> -a<left_eye> -b<right_eye>')
   print ('Usage: TestHead.py --sideX<sideX> --sideY<sideY> --sideZ<sideZ> --widthe=<width> --height=<height> --Radius=<Radius> --left_eye<left_eye> --right_eye<right_eye>')

def main(argv):
   radius = ''
   sideX = ''
   sideY = ''
   sideZ = ''
   width = ''
   height = ''
   Radius = ''

   try:
      opts, args = getopt.getopt(argv,"nx:y:z:w:h:R:a:b:",["sideX=", "sideY=", "sideZ=", "width=", "height=", "Radius=", "left_eye=","right_eye="])
   except getopt.GetoptError:
      usage()
      sys.exit(2)

   for opt, arg in opts:
      if opt == '-n':
         usage()
         sys.exit()
      elif opt in ("-x", "--sideX"):
         sideX = arg
      elif opt in ("-y", "--sideY"):
         sideY = arg
      elif opt in ("-z", "--sideZ"):
         sideZ = arg
      elif opt in ("-w", "--width"):
         width = arg
      elif opt in ("-h", "--height"):
         height = arg
      elif opt in ("-R", "--Radius"):
         Radius = arg
      elif opt in ("-a", "--left_eye"):
         left_eye = arg
      elif opt in ("-b", "--right_eye"):
         right_eye = arg

   eye=Eye.Eye(left_eye,right_eye)
   nose=Nose.Nose(sideX,sideY,sideZ)
   mouth=Mouth.Mouth(width,height)
   normalHead = Head.Head(Radius,eye,nose,mouth)
   print (normalHead.toString())
   eye.close()
   mouth.close()
   print (normalHead.toString())
   if (eye):
     print ("normalHead has a headache")
   else:
     print ("normalHead does not have a headache")

if __name__ == '__main__':
   main(sys.argv[1:])
```

Line 27, Column 25 | master 291273 | Spaces: 3 | Python

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C:\Users\Harsh\Desktop\past\python\New folder\hw4\Eye.py - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

Eye.py | Head.py | Mouth.py | Nose.py | TestHead.py

```
class Eye:
    ############################
    # Helping function
    ############################
    def __pi(self):
        return 3.1416
    ############################
    # Manager function
    ############################
    # Including a default contrutctor
    def __init__(self,left_eye,right_eye):
        self.__left_eye = left_eye
        self.__right_eye = right_eye
    def __del__(self):
        pass

    ############################
    # Access function
    ############################
    def getLeft_eye(self):
        return self.__left_eye
    def setLeft_eye(self, left_eye):
        self.__left_eye = a
    def getRight_eye(self):
        return self.__right_eye
    def setRight_eye(self, right_eye):
        self.__right_eye = b
    def isSmall(self):
        return self.__radius < 10

    ############################
    # Implementor function
    ############################
    def toString(self):
        return ("left_eye= " + str(self.__left_eye),
                "right_eye= " + str(self.__right_eye))
    def close(self):
        self.__left_eye = 1
        self.__right_eye = 1
```

Line 8, Column 23 Spaces: 4 Python

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