Daily Assignment 8

- Starting from the solution of 'Daily Assignment 7', write down a Python program that behaves exactly same to the 'Daily Assignment 7'
- But you have to draw a triangle using the drawTriangle() & render() function in the next slide.
- And You have to add some lines to render()
 function at '# edit here', using glMultMatrixf()
 call.
- You don't' need to use the matrix stack!
- Set the window title to your student number.

(ey	Transformation
Q	Translate by -0.1 in x direction w.r.t global coordinate
-	Translate by 0.1 in x direction w.r.t global coordinate
4	Rotate about y axis by -10° w.r.t local coordinate
)	Rotate about y axis by +10° w.r.t local coordinate
N	Rotate about x axis by -10° w.r.t local coordinate
	Rotate about x axis by +10° w.r.t local coordinate
	Rotate camera -10°
3	Rotate camera +10°

```
def drawTriangle():
    glColor3ub(255, 255, 255)
    alBegin(GL TRIANGLES)
    glVertex3fv(np.array([.0,.5,0.]))
    qlVertex3fv(np.array([.0,.0,0.]))
    qlVertex3fv(np.array([.5,.0,0.]))
    qlEnd()
def render(M, camAng):
    glClear (GL COLOR BUFFER BIT | GL DEPTH BUFFER BIT)
    glEnable(GL DEPTH TEST)
    glLoadIdentity()
    glOrtho(-1,1, -1,1, -1,1)
    qluLookAt(.1*np.sin(camAng),.1,.1*np.cos(camAng),
0,0,0,0,1,0
    # draw cooridnate - x in red, y in green, z in blue
    glBegin(GL LINES)
    glColor3ub(255, 0, 0)
    glVertex3fv(np.array([0.,0.,0.]))
    qlVertex3fv(np.array([1.,0.,0.]))
    glColor3ub(0, 255, 0)
    glVertex3fv(np.array([0.,0.,0.]))
    glVertex3fv(np.array([0.,1.,0.]))
    qlColor3ub(0, 0, 255)
    glVertex3fv(np.array([0.,0.,0]))
    glVertex3fv(np.array([0.,0.,1.]))
    qlEnd()
    ###################
    # edit here
```

How to Submit

- What you have to submit:
 - Only one .py file: main.py

Write down all your code to main.py

• | > py -3 main.py | Or | \$ python3 main.py | should show your glfw window.

How to Submit

• Submit your assignment only through the Assignment (과제) menu of the lecture home at portal.hanyang.ac.kr.

 Recommended due date: Today's lecture end time

(Hard due date: 23:59 Today)