

# HW 01 - turn in one week from today in Canvas

Turn in the 5 questions as a single .py file onto canvas. Use comments to clearly indicate which question you are working on. Your filename should end as \_py2.py if you use Python2 and \_py3.py if you use Python3.

1. Name one difference between Python2 and Python3. Print your answer as a string in Python.
2. You are given a list  $x = [0,1,2,3,4,5,6]$ . Print the third item in list  $x$ .
3. Assign  $y$  as the reversed order of list  $x$ . Print  $y$ .
4. Use list slicing to assign  $z$   $[1,3,5]$  from  $x$ . Print  $z$ .
5. Your friend is new to Python. He is confused why his if statement isn't working, he has a number  $x$  and wants to print 'x is positive' by checking with an if statement. His code is following.

```
x = 99
if (x > 0) is True
print('x is positive')
```

This returns an 'invalid syntax error'. Copy this code into your .py file, and correct the code.