Outline Nov 2:

• Quiz 3

• Max pumpkin TDD

• Slicing and Assert (didn’t cover in class)

Notes

• Lab 7 TDD due Saturday night (email me when you finish TDD!)
• Ninja session tonight 7-9pm (in this room)
• Office Hours TODAY 3-5pm
Max Pumpkin TDD
Example of TDD “output”
Assert

(optional topic, didn’t cover but it is useful for debugging)
Assert

- A key word and a way of checking that certain conditions are met before proceeding
- Very helpful for debugging
- **AssertionError** is a type of error
- The expression after `assert` must evaluate to a **boolean**

```python
>>> x = 7
>>> assert x < 10
>>> assert x > 10
Traceback (most recent call last):
  File "<stdin>" , line 1 , in <module>
AssertionError
>>> guess = input("> ")
> gladiator
>>> assert len(guess) == 9
>>> my_lst = [3,4,5]
>>> assert 3 in my_lst
>>> assert 7 in my_lst
Traceback (most recent call last):
  File "<stdin>" , line 1 , in <module>
AssertionError
```
Slicing

(didn’t get to in lecture, but just a review of lab a few weeks ago)
Slicing (for sequences: list, string, range)

- Slicing produces a subset of the original sequence
- It does not change the original sequence

**String example**

```python
>>> word = "Friday"
'Friday'
>>> word[3:6]
'day'
>>> word[:3]
'Fri'
>>> word[3:]
'day'
>>> word[:]
'Friday'
```

**List example**

```python
>>> my_lst = [0,1,2,3,4,5,6,7,8,9]
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
>>> my_lst[3:6]
[4, 5]
>>> my_lst[:3]
[0, 1, 2]
>>> my_lst[3:]
[3, 4, 5, 6, 7, 8, 9]
>>> my_lst
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```