## python-week2-homework

February 3, 2018

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```
In [2]: %%javascript
        $.getScript('https://kmahelona.github.io/ipython_notebook_goodies/ipython_notebook_toc
<IPython.core.display.Javascript object>
```

## 0.1 Reading Assignments

https://docs.python.org/3/tutorial/introduction.html https://docs.python.org/3/reference/lexical\_analysis.html

## 0.1.1 World View From a Computer Perspective

- We understand the world by 5 senses: see, hear, touch, taste, smell
- we describe/represent the world by words/text, numbers, images, audio, videos.
- Guess how does computer understand and represent the world?

## 0.1.2 Numbers Representation

Computer use switches/gates to represent 0 and 1 http://computing-concepts.cs.uri.edu/index.php/Data\_Representation\_For\_Computing

```
In [3]: print("{:>8} {:>8} {:>8} {:>8}".format('dec', 'bin', 'oct', 'hex'))
       print("-"*40)
        for i in range(20):
            print("{:>8} {:>8} {:>8} {:>8}".format(i, bin(i), oct(i), hex(i)))
```

dec	bin	oct	hex	
0	0b0	000	0x0	
1	0b1	0o1	0x1	
2	0b10	0o2	0x2	
3	0b11	0o3	0x3	
4	0b100	0o4	0x4	
5	0b101	0o5	0x5	