

Name: Alex Cullen

identikey: alcu6962

email: alcu6962@colorado.edu

Calculations

```
In [1]: x = 10
```

```
In [2]: y = 2.0
```

```
In [3]: x
```

```
Out[3]: 10
```

```
In [4]: print(x + y)
```

```
12.0
```

Mathematical Markdown

$$ax^2 + bx + c = 0$$

Quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Lists

```
In [8]: lyst = [1, 2, 3, 4, 5]
```

```
In [9]: lyst[0:3]
```

```
Out[9]: [1, 2, 3]
```

```
In [10]: lyst[3:]
```

```
Out[10]: [4, 5]
```

```
In [26]: lyst[0::2] + lyst[1::2]
```

```
Out[26]: [1, 3, 5, 2, 4]
```

```
In [27]: new_lyst = [x**2 for x in _]  
print([x**2 for x in _])
```

```
[1, 9, 25, 4, 16]
```

```
In [28]: sum(new_lyst)
```

```
55
```

Out[28]:

Dictionary

```
In [30]: D= {"anaconda": "nicki minaj", "python": "jupyter", "jupyter": "notebook"}
```

```
In [31]: D['anaconda']
```

```
Out[31]: 'nicki minaj'
```

```
In [33]: D[D['python']]
```

```
Out[33]: 'notebook'
```

```
In [ ]:
```