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4/1/2025 Class Notes

Intro to the Linux Terminal

Some Commands: **cd** (change directory) **Is** (list contents of a directory) **mkdir** new_folder (make a directory named new_folder) **touch my_file.txt** (make a file names my_file.txt)

cd Desktop (moves you into the desktop from your home folder)

cd Desktop/new_folder (moves you into the new_folder directory on your Desktop)

python3 -m jupyterlab (Opens Jupyter Lab)

Below Python is doing an implicit conversion and representing both numbers as the binary value 101 except you cannot ask python to explicity convert between a float and a binary

```
In [3]: y = 5.0
x == y

Out[3]: True

In [9]: print(bin(5.0))
print(bin(5))
```

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Hot take: Floats are not integers and integers aren't floats. Do not think that they are equal even though python will evaluate 5 == 5.0? as True

```
In [4]: x == '5'
Out[4]: False
In [5]: 5 == 5.0
Out[5]: True
In [6]: name = "Denise"
        print(name)
In [7]:
       Denise
In [2]:
        "Denise" == "denise"
Out[2]: False
In [4]: bears = ['one','two']
In [5]: bears[1.0]
                                                 Traceback (most recent call l
       TypeError
       ast)
       Cell In[5], line 1
       ---> 1 bears[1.0]
       TypeError: list indices must be integers or slices, not float
In [6]: bears[1]
Out[6]: 'two'
In [7]:
        0.1 + 0.2 == 0.3
Out[7]: False
```

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In [8]: print(0.1 + 0.2)

0.30000000000000004

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