Computer Science Department
CS632V – Introduction to Big Data Analytics
Spring 2017

Assignment #1

a) Write up a Python function that will convert Celsius degrees to Fahrenheit degrees and vice versa!

b) Write up a Python script that will copy the contents of one file into another

```
from sys import argv
from os.path import exists

script, from_file, to_file = argv

print "Copying from %s to %s" % (from_file, to_file)

# we could do these two on one line too, how?
in_file = open(from_file)
indata = in_file.read()

print "The input file is %d bytes long" % len(indata)

print "Does the output file exist? %r" % exists(to_file)
print "Ready, hit RETURN to continue, CTRL- C to abort."
raw_input()

out_file = open(to_file, 'w')
out_file.write(indata)

print "Alright, all done."

out_file.close()
in_file.close()
```

c) Print an alphabetically sorted list of all functions in the re module, which contain the word find.

```
import re

# Your code goes here
```

d) Write the Probability Density Function of Normal Distribution in a Jupyter Notebook by utilizing Makrdown & LaTex code

$$P(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-(x-\mu)^2/(2\sigma^2)}$$