### pcom, dcom, tstampst, tstampend obtained as usual using csv\_reader .tstampst(row[2]), tstampend(row[3]). Data cleaned additionally for row[2] and row[3] blank entries

d = {'Start\_Com': pcom, 'End\_Com': dcom, 'Start time stamp':tstampst, 'End time stamp': tstampend}

df = pd.DataFrame(d)"""

df['Start time stamp'] = pd.to\_datetime(df['Start time stamp'])

df.index = df['Start time stamp']

del df['Start time stamp']

df=df.sort\_index()

### Isolate hourly data for week 1, 1/1/13 to 1/7/13

df\_week1=df[0:113856]

### convert d1, d2 to numpy array

d1=d1.as\_matrix()

d2=d2.as\_matrix()

### Pairwise array for community area trips

i=0

array=[]

while i<len(d1):

array.append((d1[i],d2[i]))

i=i+1

### To count the pairwise frequencies

### To find the most frequent pairings(10,100, 1000…..)

from collections import Counter

c=Counter(arr)

l=c.most\_common(5)

### Export to csv file

Import pandas as pd

df=pd.DataFrame(l)

df.to\_csv(‘file’)

###and

df\_week1.to\_csv(‘file’)