

```
In [3]: import pandas as pd
import os
print(os.listdir("."))
```

```
['flights.csv', 'networkX_sample.ipynb', 'Untitled.ipynb', 'airlines.csv', 'small_flights.csv', 'airports.csv', '.ipynb_checkpoints']
```

```
In [18]: myfile = open("flights.csv", encoding='utf-8' )

output_file = open("flights2.csv", encoding='utf-8', mode = "w+")

count = 0

maxcount = 100000

line = myfile.readline()

while line:
    v = line.split(',')
    output_file.writelines(v[0] + "," + v[1] + "," + v[2] + "," + v[3] + "," + v[4]
    count = count + 1
    line = myfile.readline()

    if count > maxcount:
        break

myfile.close()
output_file.close()
```

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In [19]: import pandas as pd
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```
In [20]: flights = pd.read_csv('flights2.csv')
```

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In [21]: flights.head()
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Out[21]:

	YEAR	MONTH	DAY	DAY_OF_WEEK	AIRLINE	FLIGHT_NUMBER	ORIGIN_AIRPORT	DESTINATION_AIRPORT
0	2015	1	1	4	AS	98	ANC	SEA
1	2015	1	1	4	AA	2336	LAX	PBI
2	2015	1	1	4	US	840	SFO	CLT
3	2015	1	1	4	AA	258	LAX	MIA
4	2015	1	1	4	AS	135	SEA	ANC

```
In [23]: import networkx as nx
import matplotlib.pyplot as plt

g=nx.Graph()

for index, row in flights.iterrows():
    g.add_edge(row[7], row[8])

print (nx.info(g))

nx.draw(g)

plt.show()
```

```
Name:
Type: Graph
Number of nodes: 3104
Number of edges: 18979
Average degree: 12.2287
```



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In [ ]:
```