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Predict 420-DL, Section 55
Micro-Assignment1 (April 3, 2016)

1) Python code:

```
import pandas as pd #import panda
#all files are in the current working directory

#Read in Airlines labels data
airlinelabs=pd.read_csv("airlinelabs.csv", sep=',', header=None)
# get the airlines data into a pandas data frame
airlinesDF=pd.read_csv("airlines.dat", sep=',', header=None)
airlinesDF.columns=airlinelabs.loc[0] # assign airlinelabs to airlinesDF columns
print(airlinelabs) # print variable names

#Read in Airports labels data
airportlabs=pd.read_csv("airportlabs.csv", sep=',', header=None)
# get the airports data into a pandas data frame
airportsDF=pd.read_csv("airports.dat", sep=',', header=None)
# Assign airportlabs names to airportsDF column dataframe
airportsDF.columns=airportlabs.loc[0]
print(airportlabs) #print airportlabs variable names

#Read in Routes labels data
routelabs=pd.read_csv("routelabs.csv", sep=',', header=None) # get a DataFrame with one
row of data from a file w/o a header
# get the routes data into a pandas data frame
routesDF=pd.read_csv("routes.dat", sep=',', header=None)
routesDF.columns=routelabs.loc[0] # Assign routes names to routesDF data frame
print(routelabs) # print routelabs variable names
```


Output:
a) `airlineslabs:`

```
    ...: print(airlinelabs)
         0         1         2       3      4        5         6       7
0  airlineID  airName  airAlias  iata  icao  callSign  country  active
```


b) `airportlabs:`
```
    ...: print(airportlabs)
      0        1       2        3          4       5        6          7    \
0   apID   apName   apCity   apCountry   apIata   apIcao   apLatitude   apLongitude

           8           9         10      11
0   apAltitude   apTimezone   apDST   apTz
```


c) **routelabs:**
```
    ...: print(routelabs)
        0           1           2          3         4         5          6   \
0   airline   airlineID   srcAirport   srcApID   destAp   destApID   codeshare

        7           8
0   stops   equipment
```


2) Additional details
a) I am using MacBook Pro laptop running OSX Yosemite (version 10.10.4) for the entirety of this course
b) Enthought Canopy IDE with Python 2.7.10 | 64-bit