```
"
This program demonstrates data analysis using pandas.
The program uses Avacados prices datasets.
import csv
import pandas as pd
data = pd.read_csv('/Users/staff/downloads/avocado.csv')
df = pd.DataFrame(data)
print("Display first 5 rows")
print (df.head())
print("\nDisplay all rows on columns AveragePrice and Region")
avg_region = df.loc[1:, ['AveragePrice', 'region']]
print(avg region)
print("\nDisplay price statistics in all regions")
selected col = df.loc[1:, ['AveragePrice']]
print(selected_col.describe())
print("\nDisplay price statistics in Chicago region only")
print ("Avocados price in Chicago region")
chicago_rows = df.loc[df['region'] == 'Chicago']
avg_price = chicago_rows.loc[1:, ['AveragePrice']]
print(avg_price.describe().stack()[['min','max','mean']])
```

display Total Volume of avocados in Chicago region
tot_vol = chicago_rows['Total Volume'].sum()
print("\nTotal Volume of avocados in Chicago region", tot_vol)

Output

Display first 5 rows

```
Unnamed: 0
                Date AveragePrice ...
                                        type year region
                        1.33 ... conventional 2015 Albany
0
      0 2015-12-27
                        1.35 ... conventional 2015 Albany
1
      1 2015-12-20
2
      2 2015-12-13
                        0.93 ... conventional 2015 Albany
3
      3 2015-12-06
                        1.08 ... conventional 2015 Albany
                        1.28 ... conventional 2015 Albany
      4 2015-11-29
```

[5 rows x 14 columns]

Display all rows on columns AveragePrice and Region

	AveragePrice			e region
1		1.3	35	Albany
2		0.9	93	Albany
3		1.0	8(Albany
4		1.2	28	Albany
5		1.26		Albany
				•••
18	244		1.63	WestTexNewMexico
18	245		1.71	WestTexNewMexico
18	246		1.87	WestTexNewMexico
18	247		1.93	WestTexNewMexico
18	248		1.62	WestTexNewMexico

[18248 rows x 2 columns]

3.250000

max

Display price stastitics in all regions
 AveragePrice
count 18248.000000
mean 1.405983
std 0.402687
min 0.440000
25% 1.100000
50% 1.370000
75% 1.660000

Display price stastitics in Chicago region only Avocados price in Chicago region mean AveragePrice 1.556775 min AveragePrice 0.700000 max AveragePrice 2.300000 dtype: float64

Total Volume of avocados in Chicago region 133702338.50999999