

```
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
import pandas as pd
pf = pd.read_csv("pollution.csv")
train, test = train_test_split(pf, test_size=0.2, random_state=33, shuffle=True)
print(test)
print(train)
```

	location	month	year	...	NH3	μ g/l	AQI	Air Quality
860	RUDRAPUR	9	2013	...		400	102.49	Moderate
756	KASHIPUR	1	2015	...		400	142.72	Moderate
479	RISHIKESH-NAGARNIGAM	12	2021	...		400	100.00	Satisfactory
841	RUDRAPUR	2	2012	...		400	156.77	Moderate
684	HALDWANI	1	2019	...		400	349.28	Very Poor
..
834	KASHIPUR	7	2021	...		400	370.07	Very Poor
554	SIDCUL-HARIDWAR	3	2018	...		400	109.99	Moderate
446	RISHIKESH-NAGARNIGAM	3	2019	...		400	121.11	Moderate
767	KASHIPUR	12	2015	...		400	125.12	Moderate
896	RUDRAPUR	9	2016	...		400	100.00	Satisfactory
[192 rows x 12 columns]								
	location	month	year	...	NH3	μ g/l	AQI	Air Quality
858	RUDRAPUR	7	2013	...		400	100.00	Satisfactory
771	KASHIPUR	4	2016	...		400	131.37	Moderate
234	RAIPUR ROAD DEHRADUN	7	2021	...		400	145.47	Moderate
781	KASHIPUR	2	2017	...		400	114.97	Moderate
149	RAIPUR ROAD DEHRADUN	6	2014	...		400	135.86	Moderate

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```
import pandas as pd
import matplotlib.pyplot as plt
df = pd.read_csv("pollution.csv")
print(df)
aqi = df["AQI"]
aqi.plot(kind='hist')
df.plot(x="year", y="AQI", kind="scatter")
```

	location	month	year	...	NH3	μ g/l	AQI	Air Quality
0	CLOCK TOWER-DEHRADUN	1	2012	...	400	162.19		Moderate
1	CLOCK TOWER-DEHRADUN	2	2012	...	400	149.18		Moderate
2	CLOCK TOWER-DEHRADUN	3	2012	...	400	174.23		Moderate
3	CLOCK TOWER-DEHRADUN	4	2012	...	400	187.17		Moderate
4	CLOCK TOWER-DEHRADUN	5	2012	...	400	260.73		Poor
...
955	RUDRAPUR	8	2021	...	400	368.03		Very Poor
956	RUDRAPUR	9	2021	...	400	325.96		Very Poor
957	RUDRAPUR	10	2021	...	400	100.00		Satisfactory
958	RUDRAPUR	11	2021	...	400	100.00		Satisfactory
959	RUDRAPUR	12	2021	...	400	100.00		Satisfactory

[960 rows x 12 columns]

<matplotlib.axes._subplots.AxesSubplot at 0x7f1607854d50>



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