

```

In [22]: """
          library file
          """

import pandas as pd
import matplotlib.pyplot as plt

dataset = (
    "https://raw.githubusercontent.com/fivethirtyeight/data/master/drug-use-by-age/drug-
")

def load_dataset():
    df = pd.read_csv(dataset)
    return df

def grab_mean(df, col):
    return df[col].mean()

def grab_median(df,col):
    return df[col].median()

# def grab STD
def grab_std(df,col):
    return df[col].std()

# def grab max
def grab_max(df,col):
    return df[col].max()

def create_histogram(df , col):
    df[col].plot.hist(bins=10, edgecolor='black')
    plt.title(col)
    plt.show() # makes plots

df1 = load_dataset()
df1.head()

```

```

Out [22]:

```

| | age | n | alcohol_use | alcohol_frequency | marijuana_use | marijuana_frequency | cocaine_use | c |
|---|-----|------|-------------|-------------------|---------------|---------------------|-------------|---|
| 0 | 12 | 2798 | 3.9 | 3.0 | 1.1 | 4.0 | 0.1 | |
| 1 | 13 | 2757 | 8.5 | 6.0 | 3.4 | 15.0 | 0.1 | |
| 2 | 14 | 2792 | 18.1 | 5.0 | 8.7 | 24.0 | 0.1 | |
| 3 | 15 | 2956 | 29.2 | 6.0 | 14.5 | 25.0 | 0.5 | |
| 4 | 16 | 3058 | 40.1 | 10.0 | 22.5 | 30.0 | 1.0 | |

5 rows x 28 columns

```

In [16]: mean_alc = grab_mean(df1,"alcohol_use")
          print(mean_alc)

```

55.42941176470588

```
In [15]: median_alc = grab_median(df1,"alcohol_use")  
print(median_alc)
```

64.6

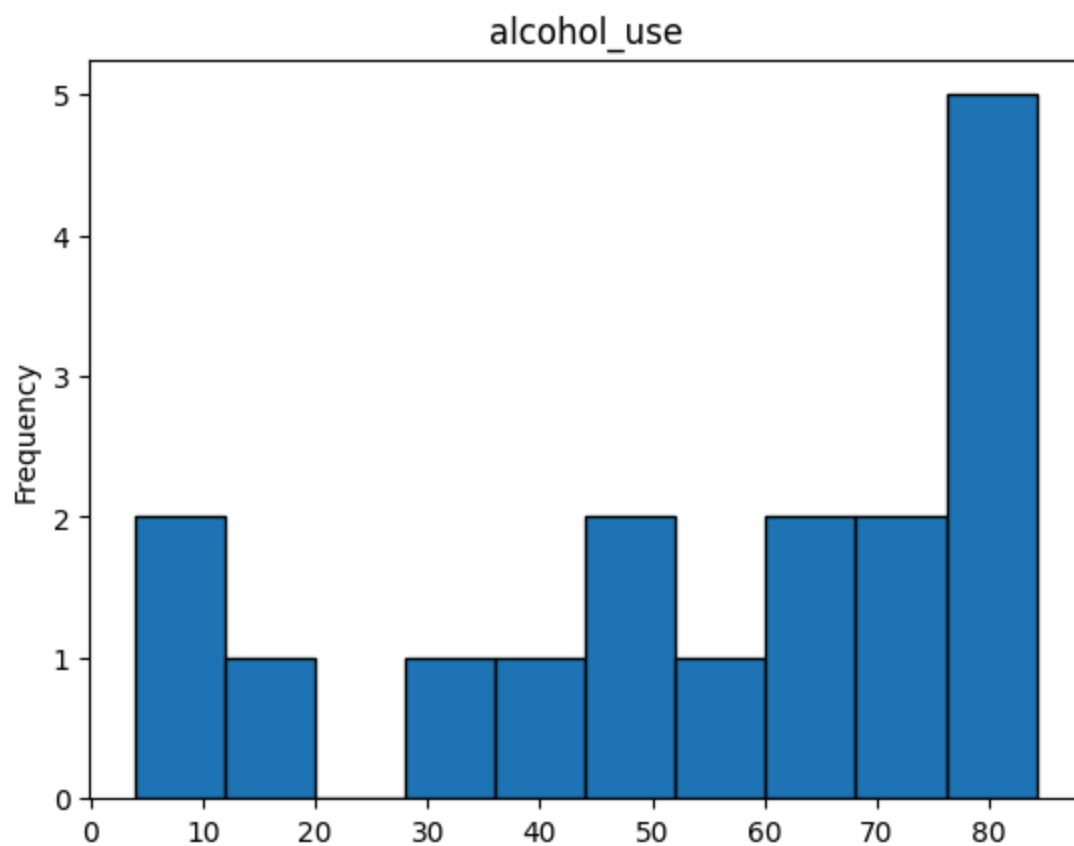
```
In [14]: std_alc = grab_std(df1,"alcohol_use")  
print(std_alc)
```

26.878866342953394

```
In [17]: max_alc = grab_max(df1,"alcohol_use")  
print(max_alc)
```

84.2

```
In [23]: create_histogram(df1, "alcohol_use")
```



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In [24]: len(df1)
```

Out[24]: 17

```
In [ ]:
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