Import Some Libraries

In [7]:
```
import numpy as np

import pandas as pd
from pandas import Series, DataFrame
from pandas.plotting import scatter_matrix

import matplotlib.pyplot as plt
from pylab import rcParams

import seaborn as sb
```

In [8]:
```
%matplotlib inline
rcParams['figure.figsize'] = 5,4
sb.set_style('whitegrid')
```

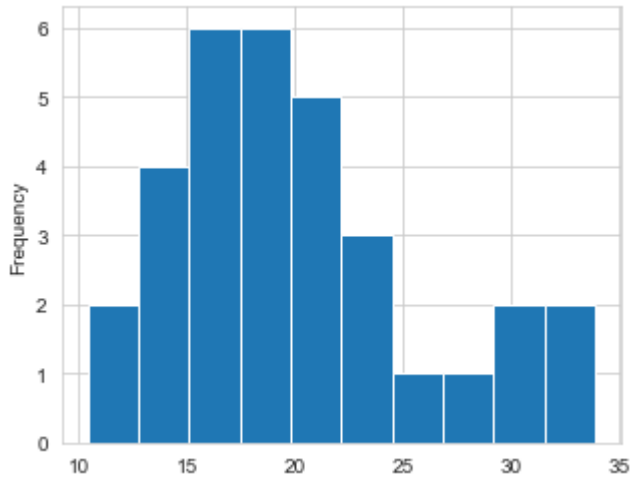
Read file csv from local computer

In [9]:
```
address = 'C:/Users/muham/mtcars.csv'
cars = pd.read_csv(address)
cars.columns = ['car_names', 'mpg', 'cyl', 'disp', 'hp', 'drat', 'wp', 'qsec',
'vs', 'am', 'gear', 'carb']
```

Using Histogram. With Pandas, we can use (kind='hist). But with Seaborn, we can use (distplot)

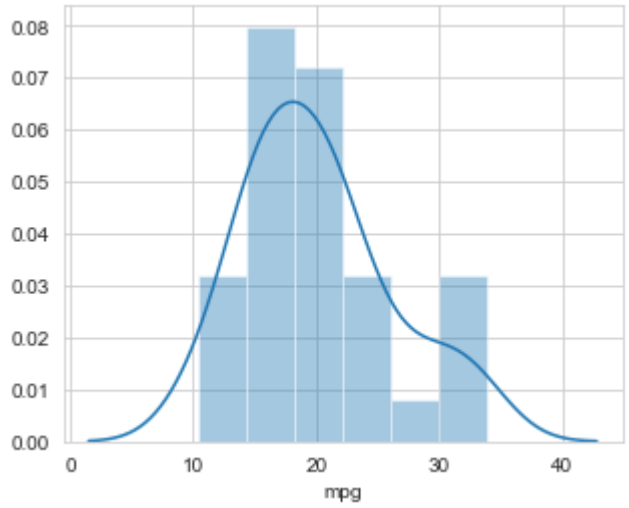
In [32]:
```
cars.index = cars.car_names
mpg = cars['mpg']
mpg.plot(kind='hist')
```

Out[32]: <matplotlib.axes._subplots.AxesSubplot at 0x14245d70>



In [11]:
```
sb.distplot(mpg)
```

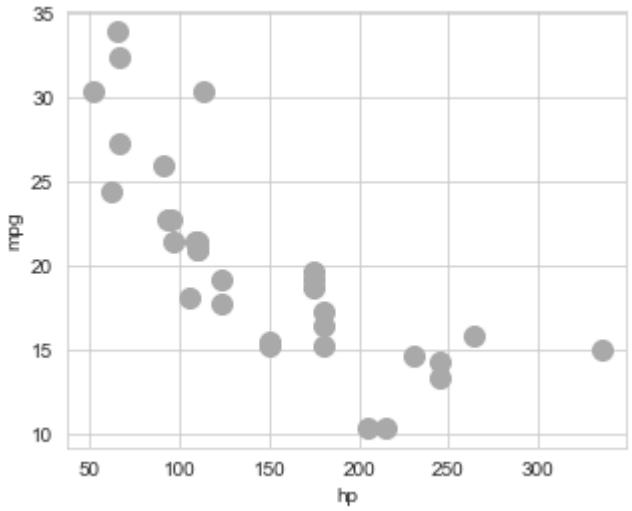
Out[11]: <matplotlib.axes._subplots.AxesSubplot at 0x50d5030>



For Scatter Plot, we can use Pandas with command (kind='scatter). And for Seaborn, we can use command (regplot) but remember parameters data, and scatter = True

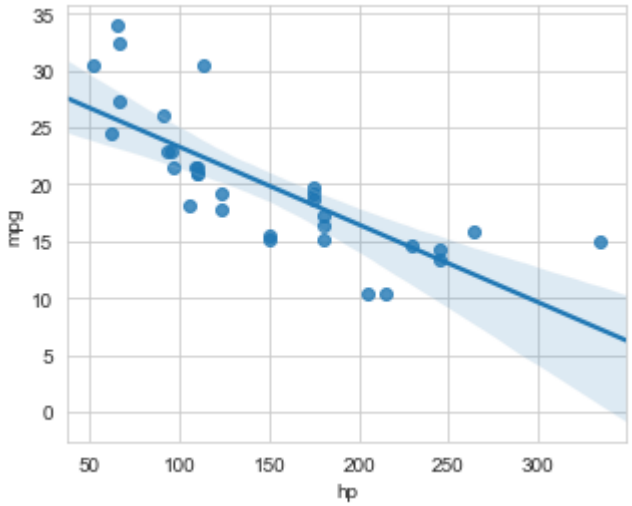
In [12]:
```
cars.plot(kind = 'scatter', x='hp', y='mpg', c=['darkgrey'], s=100)
```

Out[12]: <matplotlib.axes._subplots.AxesSubplot at 0x512df70>



In [16]:
```
sb.regplot(data=cars, x='hp', y='mpg', scatter=True)
```

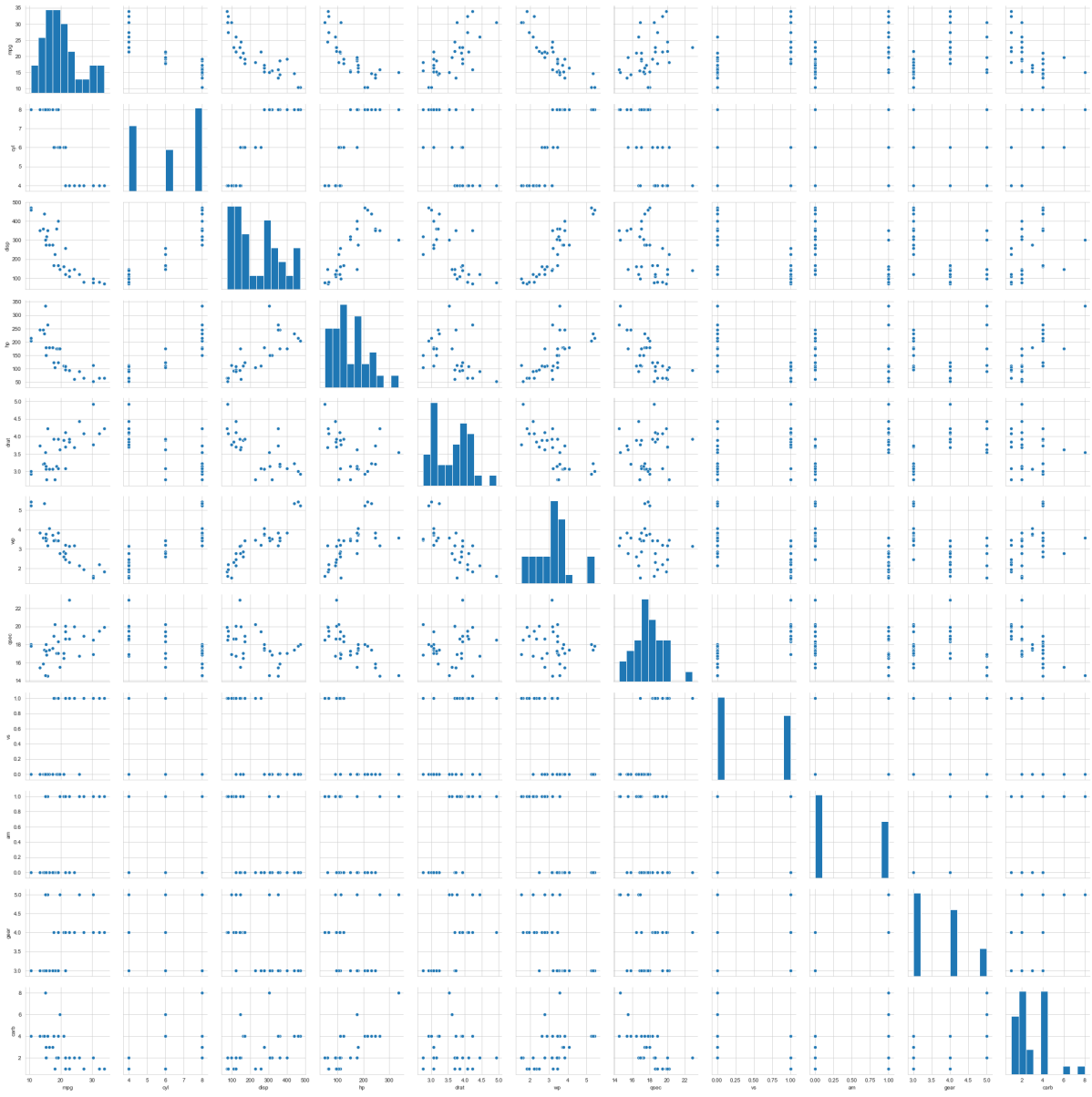
Out[16]: <matplotlib.axes._subplots.AxesSubplot at 0x51cc0f0>



We can use Seaborn's feature, which is pairplot for data visualization of file or csv

In [17]:
```
sb.pairplot(cars)
```

Out[17]: <seaborn.axisgrid.PairGrid at 0x51a2730>



For Boxplot, we can use .boxplot function by matplotlib

In [24]:
```
cars.boxplot(column='mpg', by='cyl')
cars.boxplot(column='wp', by='am')
```

Out[24]: <matplotlib.axes._subplots.AxesSubplot at 0x14260cd0>