Data visualization

```
import seaborn as sns
import matplotlib.pyplot as plt
```

Step 2 load data set

```
mpg=sns.load_dataset("mpg")
mpg
```

	mpg	cylinders	displacement	horsepower	weight	acceleration	model_year	origin	name
0	18.0	8	307.0	130.0	3504	12.0	70	usa	chevrolet chevelle malibu
1	15.0	8	350.0	165.0	3693	11.5	70	usa	buick skylark 320
2	18.0	8	318.0	150.0	3436	11.0	70	usa	plymouth satellite
3	16.0	8	304.0	150.0	3433	12.0	70	usa	amc rebel sst
4	17.0	8	302.0	140.0	3449	10.5	70	usa	ford torino
...	...	...	...	...	...	...	...	...	...
393	27.0	4	140.0	86.0	2790	15.6	82	usa	ford mustang gl
394	44.0	4	97.0	52.0	2130	24.6	82	europe	vw pickup
395	32.0	4	135.0	84.0	2295	11.6	82	usa	dodge rampage
396	28.0	4	120.0	79.0	2625	18.6	82	usa	ford ranger

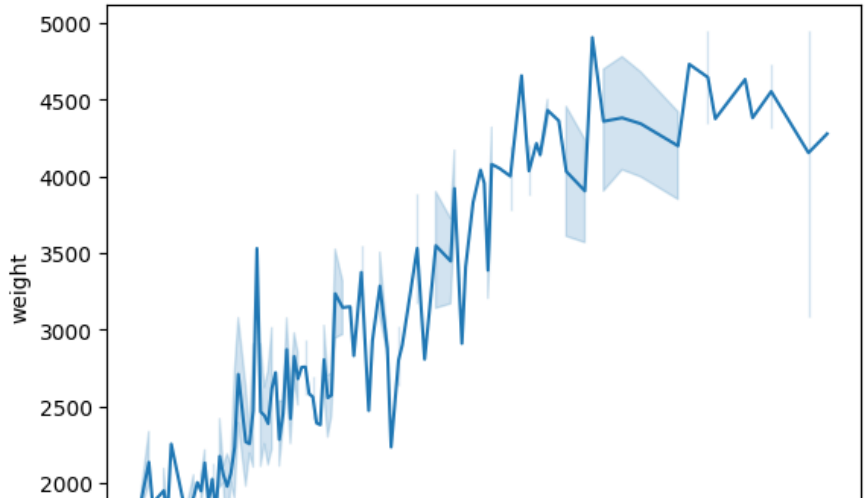
```
mpg.head()
```

	mpg	cylinders	displacement	horsepower	weight	acceleration	model_year	origin	name
0	18.0	8	307.0	130.0	3504	12.0	70	usa	chevrolet chevelle malibu
1	15.0	8	350.0	165.0	3693	11.5	70	usa	buick skylark 320
2	18.0	8	318.0	150.0	3436	11.0	70	usa	plymouth satellite
3	16.0	8	304.0	150.0	3433	12.0	70	usa	amc rebel sst
4	17.0	8	302.0	140.0	3449	10.5	70	usa	ford torino

step-3 plot a graph

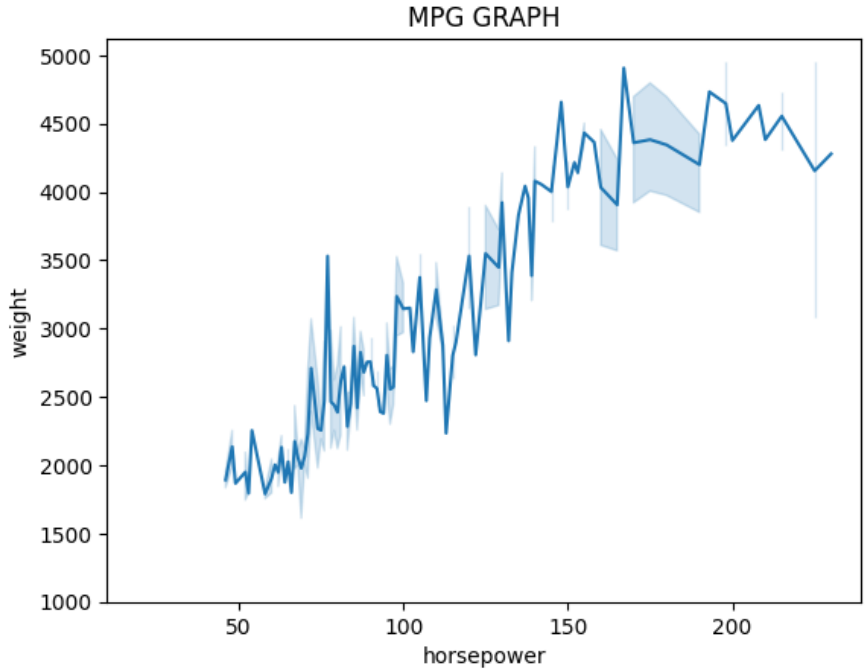
```
sns.lineplot(x="horsepower",y="weight",data=mpg)
```

```
<Axes: xlabel='horsepower', ylabel='weight'>
```




```
sns.lineplot(x="horsepower",y="weight",data=mpg)
plt.xlim(10)
plt.ylim(1000)
plt.title("MPG GRAPH")
```

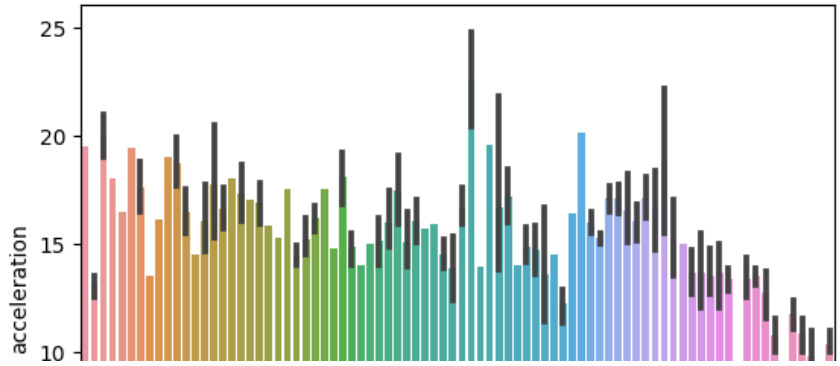
```
Text(0.5, 1.0, 'MPG GRAPH')
```



Bar plot

```
sns.barplot(x="displacement",y="acceleration",data=mpg)
```

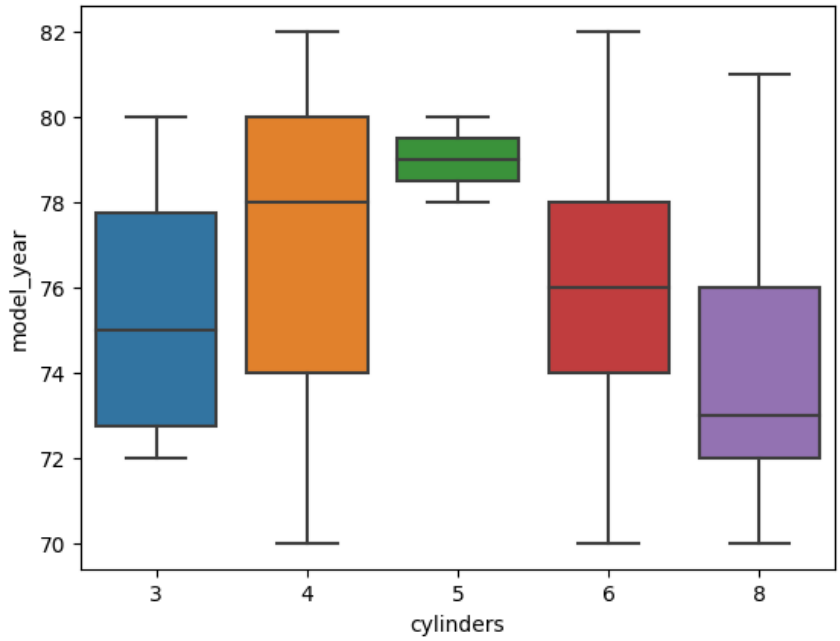
```
<Axes: xlabel='displacement', ylabel='acceleration'>
```



Box plot

```
sns.boxplot(x="cylinders",y="model_year",data=mpg)
```

```
<Axes: xlabel='cylinders', ylabel='model_year'>
```




```
sns.scatterplot(x="acceleration",y="weight",data=mpg)
```

```
<Axes: xlabel='acceleration', ylabel='weight'>
```

Cat plot

```
sns.catplot(x="weight",y="model_year",data=mpg,color= "#7CFC00")
```

```
<seaborn.axisgrid.FacetGrid at 0x7f6bd34d2920>
```