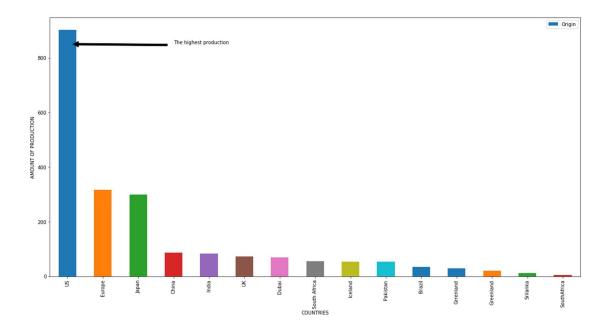
```
Source code:--
=>
import pandas as pd
import matplotlib.pyplot as plt
df = pd.read_csv('cars1111.csv')
plt.figure(figsize=(20,10))
plt.xlabel('COUNTRIES')
plt.ylabel('AMOUNT OF PRODUCTION')
plt.annotate('The highest production', xy=(0, 850), xytext=(3, 850),
     arrowprops=dict(facecolor='black', shrink=0.05),
     )
plt.annotate('The lowest production', xy=(400, 0), xytext=(400, 8),
     arrowprops=dict(facecolor='black', shrink=0.05),
     )
df_counts = df['Origin'].value_counts()
df_counts.plot(kind = 'bar')
plt.legend()
df_counts
OUTPUT:-
US
                 902
Europe
                  317
Japan
                 299
China
                   87
India
                   83
                    73
UK
Dubai
                    70
South Africa 56
Iceland
                    53
Pakistan
                   53
Brazil
                   34
Grrenland
                   30
Greenland
                   21
Srilanka
                    11
SouthAfrica
                     5
Name: Origin, dtype: int64
```



=>

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

plt.figure(figsize=(20,10))

df = pd.read\_csv('E:/cars1.csv')

plt.title('Production in specific year')

plt.xlabel('YEAR OF PRODUCTION')

plt.ylabel('AMOUNT OF PRODUCTION')

Year\_count = df['Year'].value\_counts()

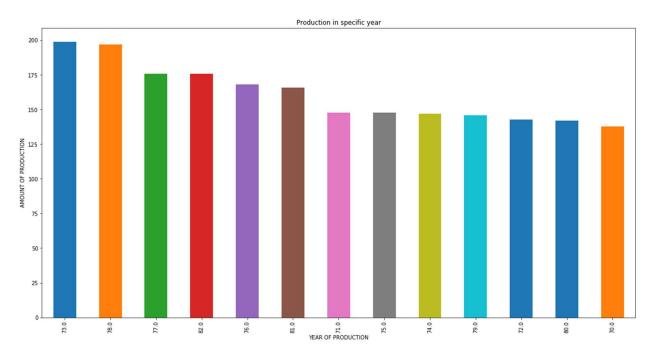
Year\_count.plot(kind = 'bar')

Year\_count

73.0	199
78.0	197
77.0	176
82.0	176
76.0	168
81.0	166
71.0	148
75 0	148

```
74.0 147
79.0 146
72.0 143
80.0 142
70.0 138
```

Name: Year, dtype: int64



Pie analysis:-

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

plt.figure(figsize=(20,10))

df = pd.read\_csv('E:/cars1.csv')

plt.title('Production in specific year')

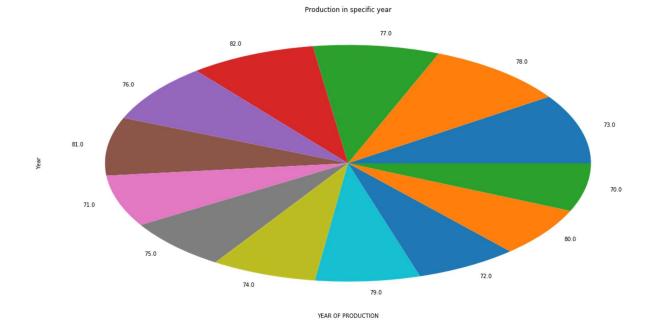
plt.xlabel('YEAR OF PRODUCTION')

plt.ylabel('AMOUNT OF PRODUCTION')

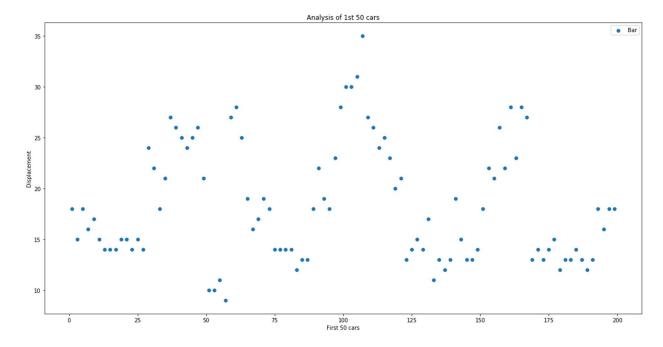
Year\_count = df['Year'].value\_counts()

Year\_count.plot(kind = 'Pie')

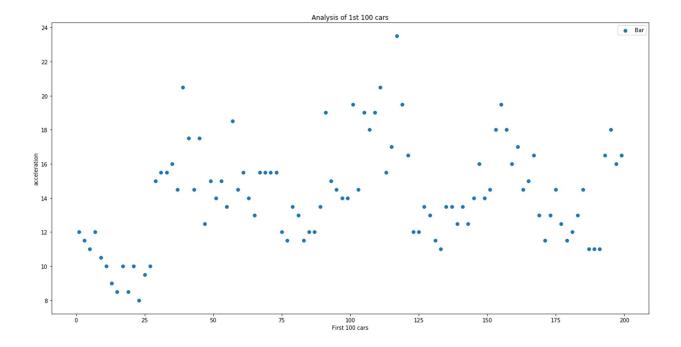
Year\_count



=>
plt.figure(figsize=(20,10))
df1 = df[0:200]
y = df1['MPG']
x = list(range(200))
plt.scatter(x, y, label='Bar')
#plt.plot(x, x\*\*2, label='quadratic')
#plt.plot(x, x\*\*3, label='cubic')
plt.xlabel('First 50 cars')
plt.ylabel('Displacement')
plt.title("Analysis of 1st 50 cars")
plt.legend()
plt.show()



```
=>
plt.figure(figsize=(20,10))
df1 = df[0:200]
y = df1['Acceleration']
x = list(range(200))
plt.scatter(x, y, label='Bar')
#plt.plot(x, x**2, label='quadratic')
#plt.plot(x, x**3, label='cubic')
plt.xlabel('First 100 cars')
plt.ylabel('acceleration')
plt.title("Analysis of 1st 100 cars")
plt.legend()
plt.show()
```



=>

x = df['Year']

y = df['Acceleration']

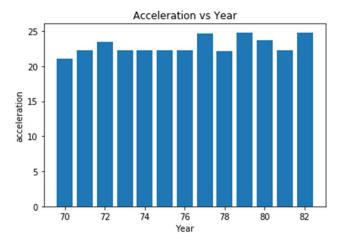
plt.xlabel('Year')

plt.ylabel('acceleration')

plt.title("Acceleration vs Year")

plt.bar(x,y)

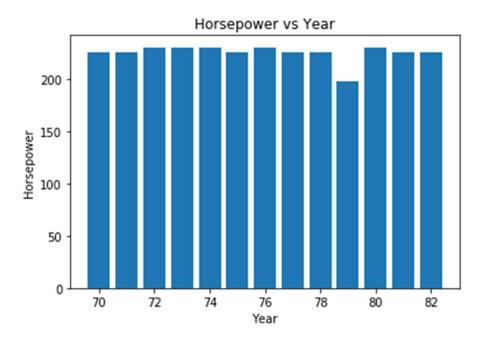
plt.show()



```
=>
```

x = df['Year']
y = df['Horsepower']
plt.xlabel('Year')
plt.ylabel('Horsepower')
plt.title("Horsepower vs Year")
plt.bar(x,y)
plt.show()

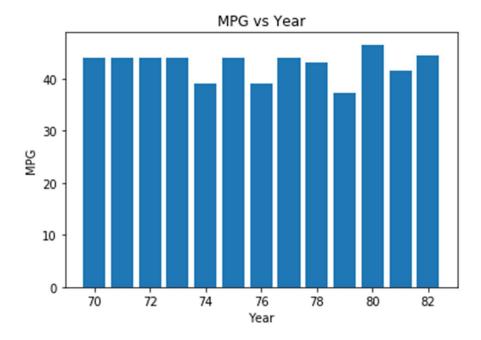
## OUTPUT:-



=>

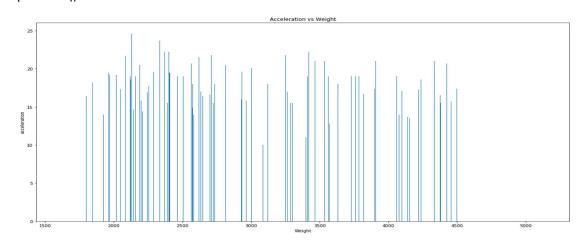
x = df['Year']
y = df['MPG']
plt.xlabel('Year')
plt.ylabel('MPG')
plt.title("MPG vs Year")
plt.bar(x,y)
plt.show()

# OUTPUT:-



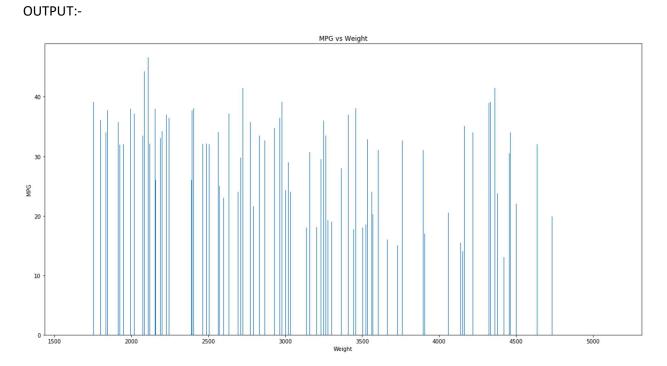
=>
plt.figure(figsize=(20,10))
x = df['Weight']
y = df['Acceleration']
plt.xlabel('Weight')
plt.ylabel('acceleration')
plt.title("Acceleration vs Weight")
plt.bar(x,y)

plt.show()



```
=>
```

```
plt.figure(figsize=(20,10))
x = df['Weight']
y = df['MPG']
plt.xlabel('Weight')
plt.ylabel('MPG')
plt.title("MPG vs Weight")
plt.bar(x,y)
plt.show()
```



```
plt.figure(figsize=(20,10))

df = pd.read_csv('E:/cars1.csv')

plt.title('No of Cylinders')

plt.xlabel('YEAR OF PRODUCTION')

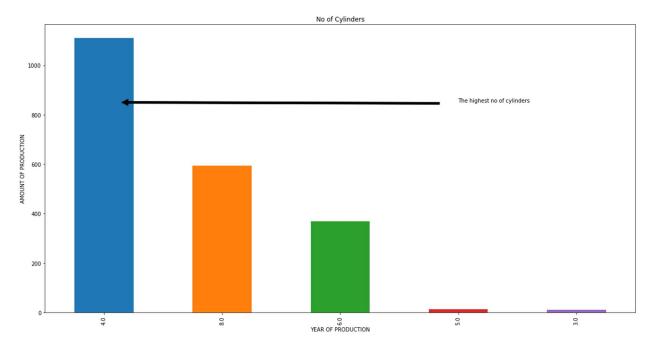
plt.ylabel('AMOUNT OF PRODUCTION')

plt.annotate('The highest no of cylinders', xy=(0, 850), xytext=(3, 850),
```

```
arrowprops=dict(facecolor='black', shrink=0.05),
)

Year_count = df['Cylinders'].value_counts()

Year_count.plot(kind = 'bar')
```



```
Pie analysis:-
```

```
plt.figure(figsize=(20,10))

df = pd.read_csv('cars1111.csv')

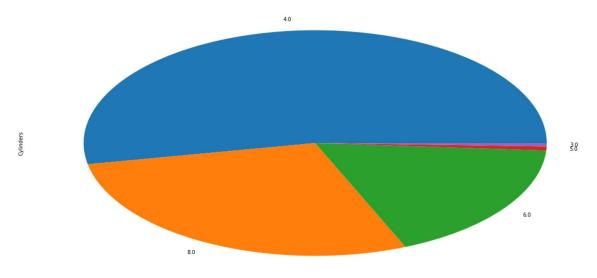
plt.xlabel('YEAR OF PRODUCTION')

plt.ylabel('AMOUNT OF PRODUCTION')

Year_count = df['Cylinders'].value_counts()

Year_count.plot(kind = 'pie')

OUTPUT:-
```



YEAR OF PRODUCTION