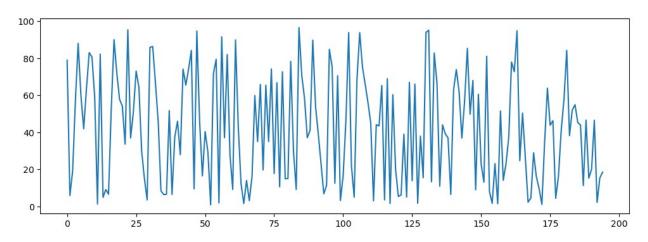
```
import pandas as pd
df=pd.read csv(r"D:\Naresh\20th, 21st\DataFrame Pandas\Data.csv")
df.head
<bound method NDFrame.head of</pre>
                                             CountryName CountryCode
BirthRate InternetUsers \
                    Aruba
                                   ABW
                                           10.244
                                                             78.9
                                                              5.9
1
              Afghanistan
                                           35.253
                                   AFG
2
                                   AG0
                                           45.985
                                                             19.1
                   Angola
3
                                                             57.2
                  Albania
                                   ALB
                                           12.877
4
     United Arab Emirates
                                   ARE
                                           11.044
                                                             88.0
190
              Yemen, Rep.
                                           32.947
                                   YEM
                                                             20.0
191
             South Africa
                                   ZAF
                                           20.850
                                                             46.5
192
                                   COD
                                           42.394
                                                             2.2
         Congo, Dem. Rep.
193
                   Zambia
                                   ZMB
                                           40.471
                                                             15.4
194
                 Zimbabwe
                                   ZWE
                                           35.715
                                                             18.5
             IncomeGroup
0
             High income
1
              Low income
2
     Upper middle income
3
     Upper middle income
4
             High income
190 Lower middle income
     Upper middle income
191
192
              Low income
193 Lower middle income
194
              Low income
[195 rows x 5 columns]>
df.head(2)
   CountryName CountryCode
                            BirthRate InternetUsers
                                                       IncomeGroup
0
                                10.244
         Aruba
                                                 78.9
                                                       High income
                       ABW
1 Afghanistan
                       AFG
                                35.253
                                                  5.9 Low income
df.columns
Index(['CountryName', 'CountryCode', 'BirthRate', 'InternetUsers',
       'IncomeGroup'],
      dtype='object')
import matplotlib.pyplot as plt #visualization
import seaborn as sns #distribution/statistical data visualiztion
```

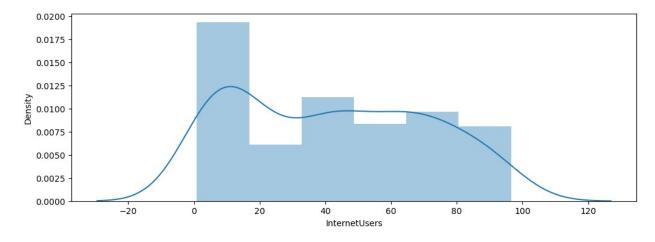
```
%matplotlib inline
plt.rcParams['figure.figsize']=12,4
import warnings
warnings.filterwarnings('ignore')
```

univariate analysis working on single variable.

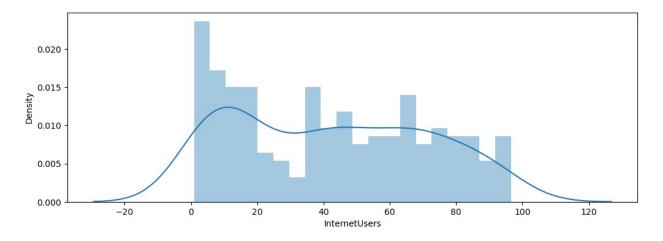
```
plt.plot(df.InternetUsers) #using matplotlib
plt.show()
```



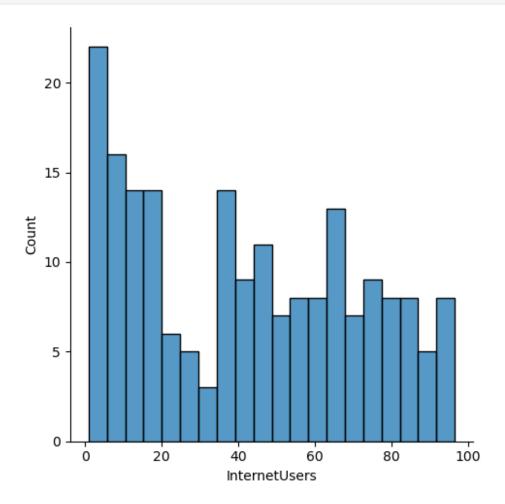
sns.distplot(df.InternetUsers) #using seaborn
plt.show()



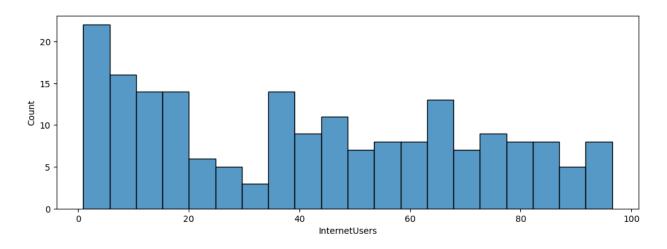
```
sns.distplot((df.InternetUsers),bins=20)
plt.show()
```

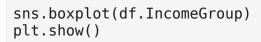


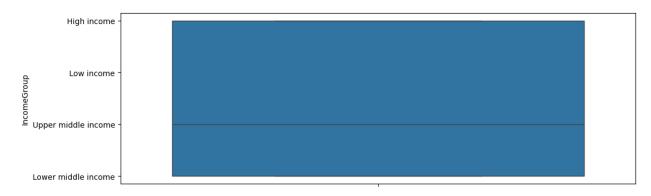
sns.displot((df.InternetUsers),bins=20)
plt.show()



sns.histplot((df.InternetUsers),bins=20)
plt.show()

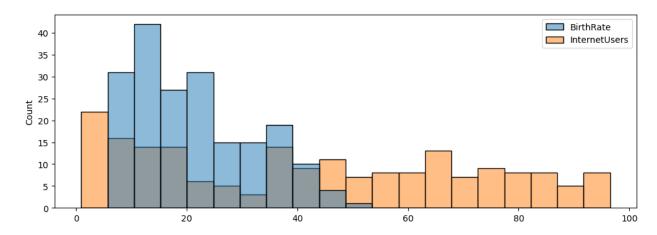




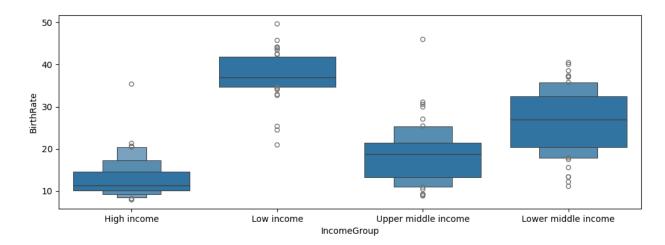


Bivariate analysis working on two variables

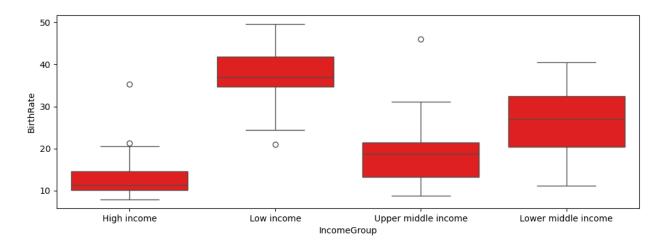
```
sns.histplot((df.BirthRate,df.InternetUsers),bins=20)
plt.show()
```



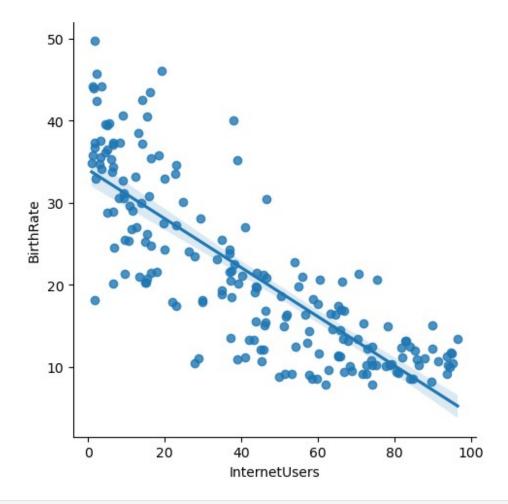
```
sns.boxenplot(data=df ,x='IncomeGroup', y='BirthRate')
plt.show()
```



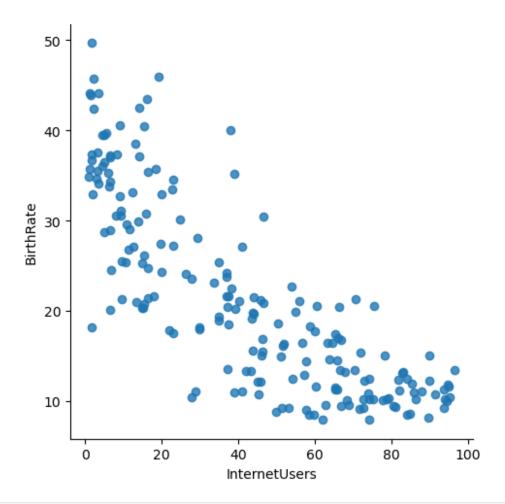
sns.boxplot(data=df ,x='IncomeGroup', y='BirthRate',color='r')
plt.show()



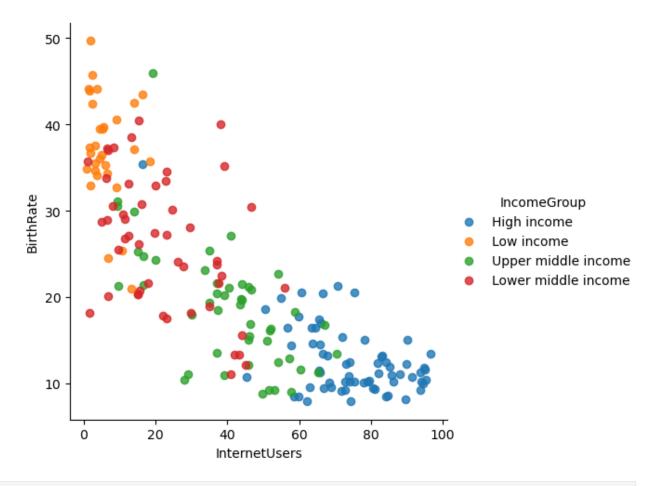
sns.lmplot(df,x='InternetUsers',y='BirthRate')
plt.show()



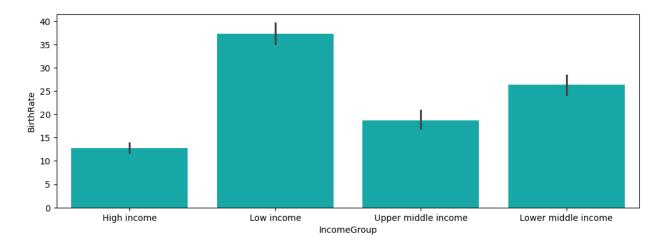
sns.lmplot(df,x='InternetUsers',y='BirthRate',fit_reg=False)
plt.show()



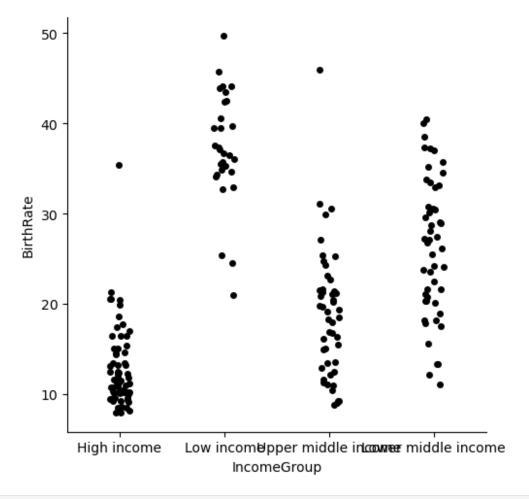
sns.lmplot(df,x='InternetUsers',y='BirthRate',hue='IncomeGroup',fit_re
g=False)
plt.show()



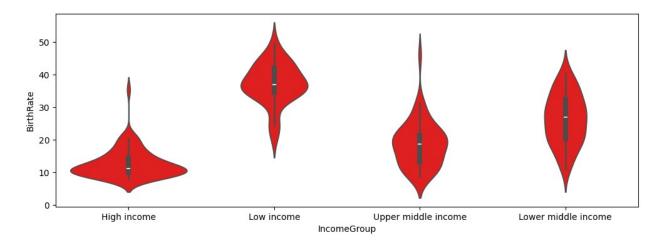
sns.barplot(df,x='IncomeGroup',y='BirthRate',color='c')
plt.show()



sns.catplot(df,x='IncomeGroup',y='BirthRate',color='k')
plt.show()



sns.violinplot(df,x='IncomeGroup',y='BirthRate',color='r')
plt.show()



sns.pointplot(df,x='IncomeGroup',y='BirthRate',color='y')
plt.show()

