```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
df=pd.read csv("Iris.csv")
df.tail(
df.isnull().sum()
df.dtypes
df.info()
df.describe()
sns.catplot(x ="Species", hue ="SepalLengthCm",
kind ="count", data = df)
sns.histplot(data=df, x="Species")
sns.histplot(data=df, x="SepalLengthCm")
#Average sepallength lies between 5 -6
df['SepalLengthCm'].mean()
sns.histplot(data=df, x="PetalLengthCm")
#Average sepalwidth lies between 4 -6
df['PetalLengthCm'].mean()
sns.histplot(data=df, x="SepalWidthCm")
#Average sepalwidth lies between 2.5 -3.5
df['SepalWidthCm'].mean()
sns.histplot(data=df, x="PetalWidthCm")
#Average petalwidth lies between 1 -2
df['PetalWidthCm'].mean()
```

```
sns.boxplot(x=df['SepalLengthCm'])
#Median lies between 5.5 to 6
sns.boxplot(x=df['PetalLengthCm'])
sns.boxplot(x=df['SepalWidthCm'])
sns.boxplot(x=df['PetalWidthCm'])
#Median lies between 1 to 1.5
                                                                       Out[17]:
<AxesSubplot:xlabel='PetalWidthCm'>
Q1=df['SepalWidthCm'].quantile(0.25)
Q3=df['SepalWidthCm'].quantile(0.75)
Q1,Q3
sns.histplot(data=df, x="SepalWidthCm")
#Average sepalwidth lies between 2.5 -3.5
df['SepalWidthCm'].mean()
sns.histplot(data=df, x="PetalWidthCm")
#Average petalwidth lies between 1 -2
df['PetalWidthCm'].mean()
df[(df['SepalWidthCm'] < lower limit) | (df['SepalWidthCm'] > upper limit)]
df without outliers=df[(df['SepalWidthCm']>lower limit)&(df['SepalWidthCm']
<upper limit)]</pre>
df_without_outliers
sns.boxplot(x=df_without_outliers['SepalWidthCm'])
df.corr()
```