```
In [33]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

In [34]: a=pd.read_csv("C:\All Datasets\Iris.csv")
a

Out[34]:

	ld	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa
145	146	6.7	3.0	5.2	2.3	Iris-virginica
146	147	6.3	2.5	5.0	1.9	Iris-virginica
147	148	6.5	3.0	5.2	2.0	Iris-virginica
148	149	6.2	3.4	5.4	2.3	Iris-virginica
149	150	5.9	3.0	5.1	1.8	Iris-virginica

150 rows × 6 columns

```
In [50]: a.isnull().sum()
```

Out[50]: Id 0
SepalLengthCm 0
SepalWidthCm 0
PetalLengthCm 0
PetalWidthCm 0
Species 0
dtype: int64

In [51]: a.isnull().any()

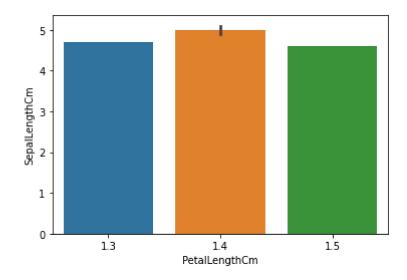
Out[51]: Id False
SepalLengthCm False
SepalWidthCm False
PetalLengthCm False
PetalWidthCm False
Species False
dtype: bool

Out[36]:

	ld	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa

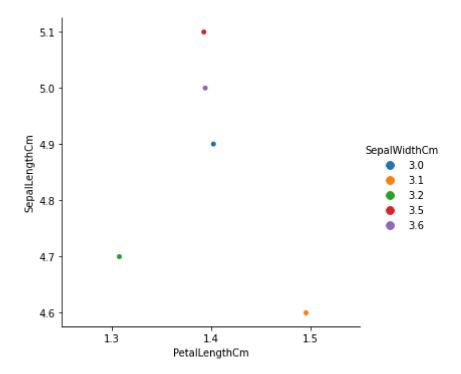
In [38]: sns.barplot(x="PetalLengthCm",y="SepalLengthCm",data=a2)

Out[38]: <AxesSubplot:xlabel='PetalLengthCm', ylabel='SepalLengthCm'>



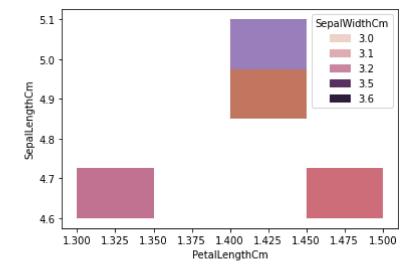
In [40]: sns.catplot(x="PetalLengthCm",y="SepalLengthCm",data=a2,hue="SepalWidthCm")

Out[40]: <seaborn.axisgrid.FacetGrid at 0x1f1477ef0a0>

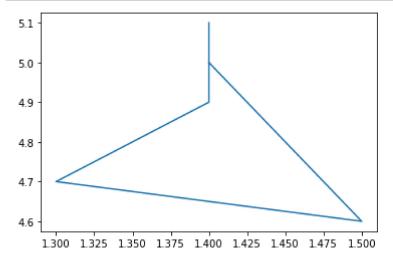


In [41]: | sns.histplot(x="PetalLengthCm",y="SepalLengthCm",data=a2,hue="SepalWidthCm")

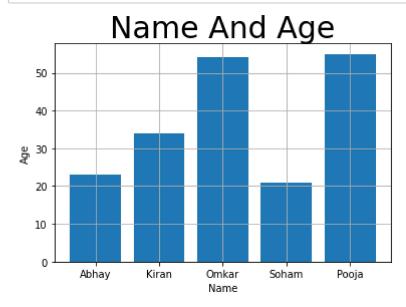
Out[41]: <AxesSubplot:xlabel='PetalLengthCm', ylabel='SepalLengthCm'>



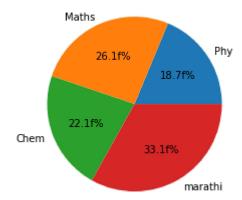
```
In [49]: plt.plot(a2["PetalLengthCm"],a2["SepalLengthCm"])
    plt.show()
```



```
In [61]: x=["Abhay","Kiran","Omkar","Soham","Pooja"]
y=[23,34,54,21,55]
plt.bar(x,y)
plt.title("Name And Age",size=30)
plt.xlabel("Name")
plt.ylabel("Age")
plt.grid()
plt.show()
```



```
In [67]: x=[56,78,66,99]
    r=["Phy","Maths","Chem","marathi"]
    plt.pie(x,labels=r,autopct="%1.1ff%")
    #plt.autopct("%1.1ff%")
    plt.show()
```



```
In [ ]:
```