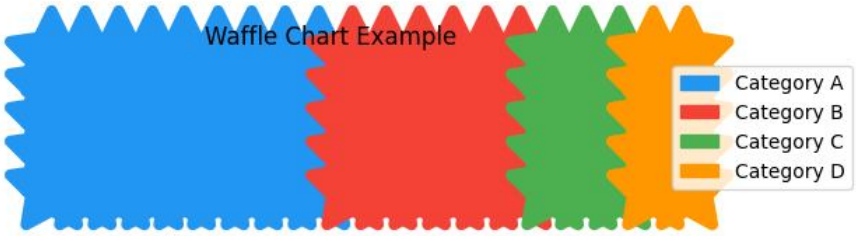
```
import pandas as pd
import seaborn as sns
df=pd.read_csv("/content/Iris.csv")
print(d.head())
```

```
   Id  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
```

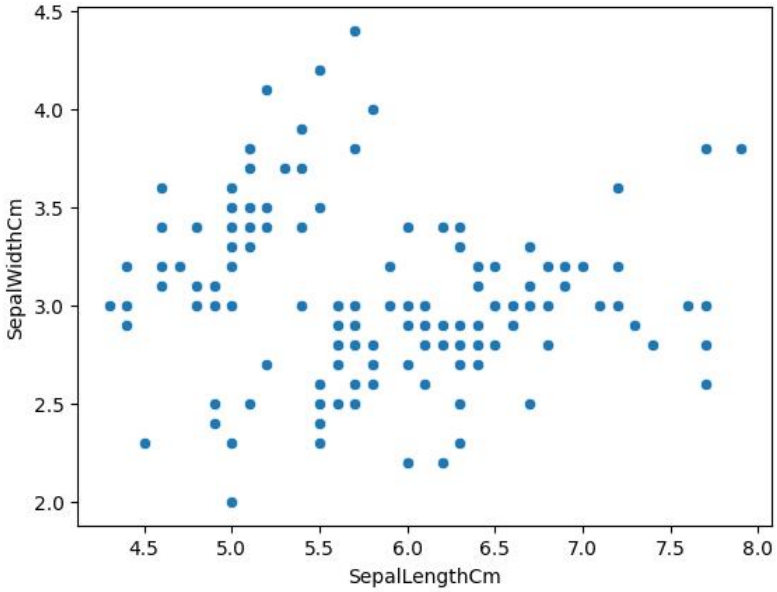
```
import matplotlib.pyplot as plt
from pywaffle import Waffle
# Data for the waffle chart
data = {
    'Category A': 45,
    'Category B': 30,
    'Category C': 15,
    'Category D': 10,
}
# Create a waffle chart
fig = plt.figure(
    FigureClass=Waffle,
    rows=5,  # Number of rows in the chart
    values=data,  # Data for the chart
    legend={'loc': 'upper left', 'bbox_to_anchor': (1, 1)},  # Position of the legend
    colors=["#2196f3", "#f44336", "#4caf50", "#ff9800"],  # Colors for each category
    title={'label': 'Waffle Chart Example', 'loc': 'center'},  # Title of the chart
    icons='star',  # You can use other icons like 'circle', 'square', etc.
)
plt.show()
```




```
# python program to generate Waffle Chart
# importing all necessary requirements
import pandas as pd
import matplotlib.pyplot as plt
from pywaffle import Waffle
# creation of a dataframe
data ={'phone': ['Xiaomi', 'Samsung',
                 'Apple', 'Nokia', 'Realme'],
    'stock': [44, 12, 8, 5, 3]
    }
df = pd.DataFrame(data)
# To plot the waffle Chart
fig = plt.figure(
    FigureClass = Waffle,
    rows = 5,
    values = df.stock,
    labels = list(df.phone)
)
```

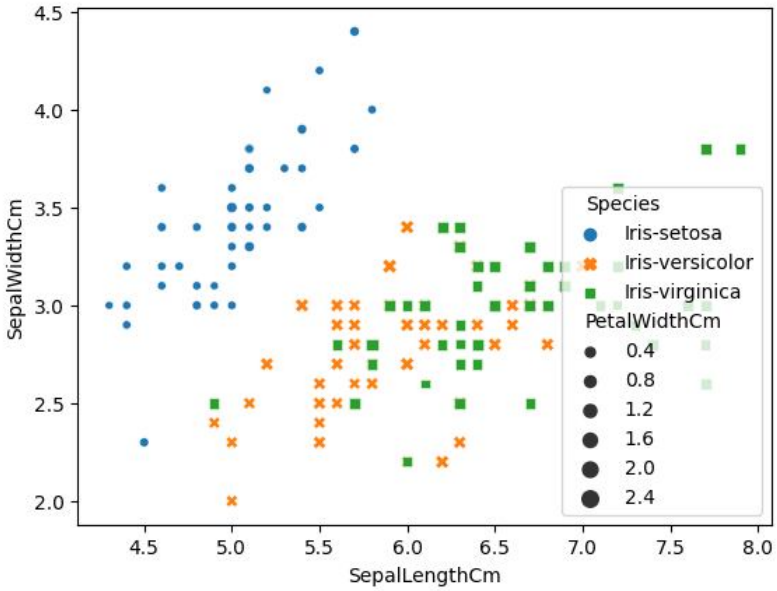

```
sns.scatterplot(x=df.SepalLengthCm,y=df.SepalWidthCm,data=df)
```

```
<Axes: xlabel='SepalLengthCm', ylabel='SepalWidthCm'>
```



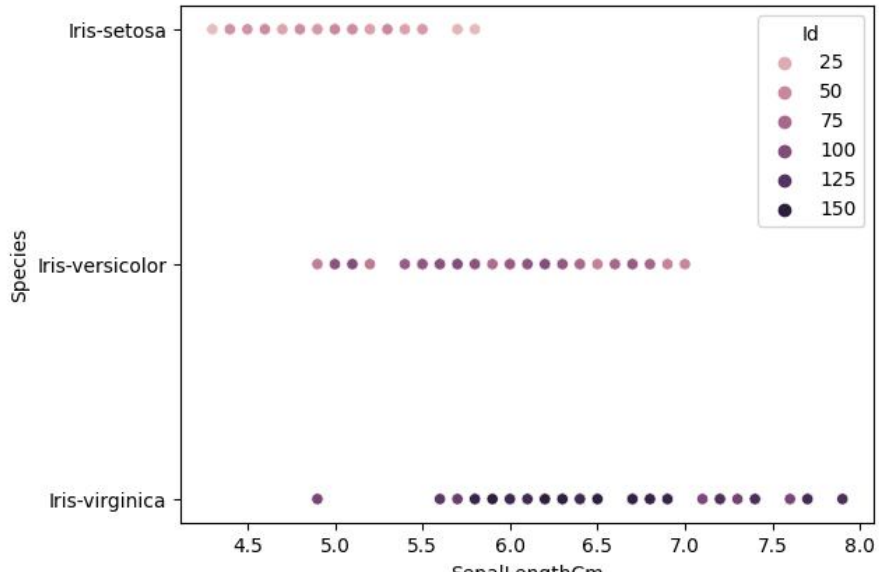

```
sns.scatterplot(x=df.SepalLengthCm,y=df.SepalWidthCm,data=df, hue=df.Species, size=df.PetalWidthCm, style=df.Species, legend='bri
```

```
<Axes: xlabel='SepalLengthCm', ylabel='SepalWidthCm'>
```



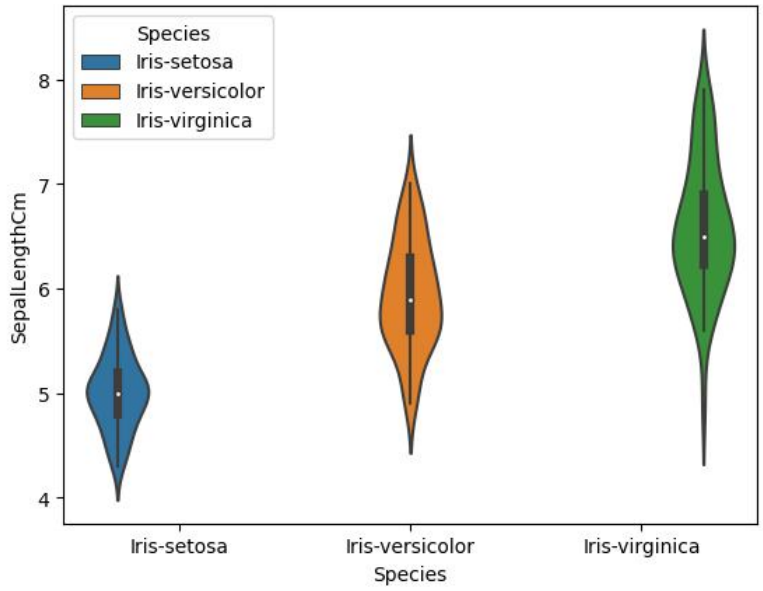

```
sns.scatterplot(x="SepalLengthCm",y="Species",data=df,hue="Id")
```

```
<Axes: xlabel='SepalLengthCm', ylabel='Species'>
```



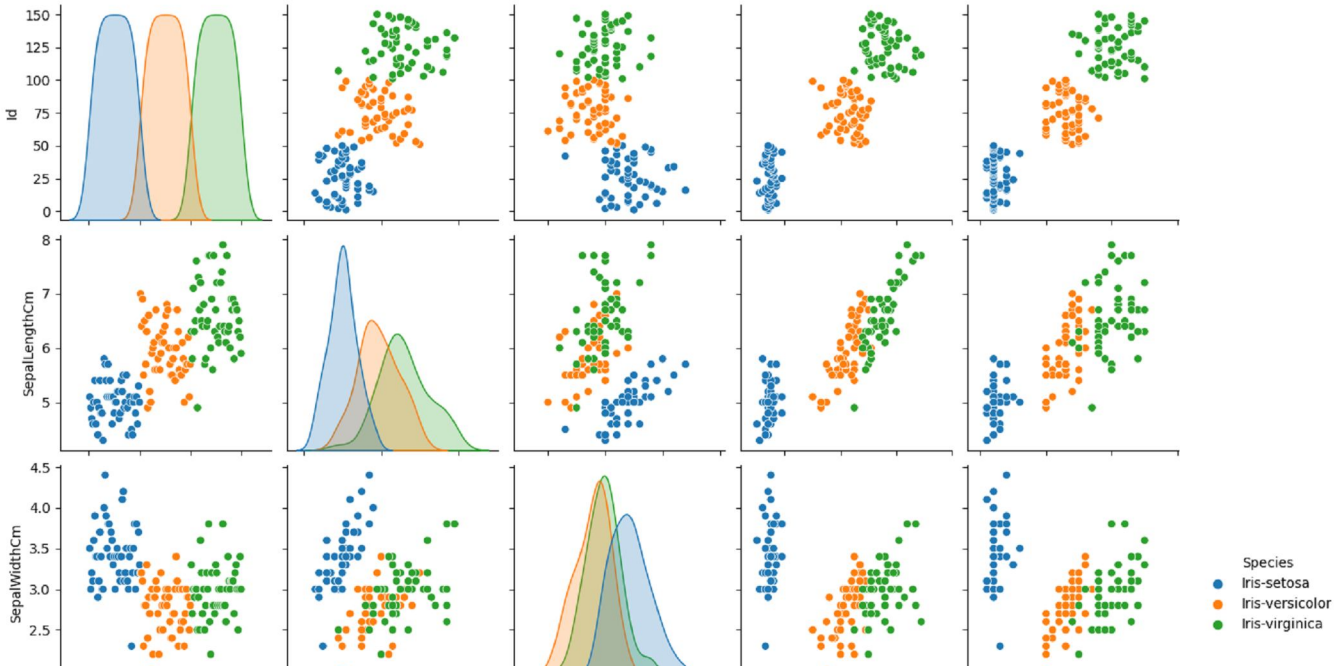

```
sns.violinplot(y='SepalLengthCm',x='Species',data=df, hue='Species')
```

```
<Axes: xlabel='Species', ylabel='SepalLengthCm'>
```




```
sns.pairplot(d,hue="Species",height=2.5)
```

```
<seaborn.axisgrid.PairGrid at 0x785fc6a73ee0>
```




```
import matplotlib.pyplot as plt
ax = sns.swarmplot(data=df, x="Species", y="PetalWidthCm")
sns.set(style="whitegrid")
plt.show
```

```
/usr/local/lib/python3.10/dist-packages/seaborn/categorical.py:3544: UserWarning: 6.0% of the points cannot be placed; you may
  warnings.warn(msg, UserWarning)
<function matplotlib.pyplot.show(close=None,
block=None)>/usr/local/lib/python3.10/dist-packages/seaborn/categorical.py:3544: UserWarning: 18.0% of the points cannot be pl
  warnings.warn(msg, UserWarning)
```