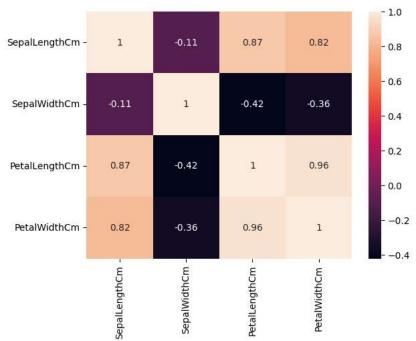
```
from google.colab import files
uploaded_file = files.upload()
     Choose Files Iris.csv
      Iris.csv(text/csv) - 5107 bytes, last modified: 16/1/2024 - 100% done
     Saving Iris.csv to Iris.csv
import pandas as pd
import seaborn as sns
import io
data = pd.read_csv(io.BytesIO(uploaded_file['Iris.csv']))
data.info()
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 150 entries, 0 to 149
     Data columns (total 6 columns):
                    Non-Null Count Dtype
     # Column
                       ----- July
     0 Id
                        150 non-null
     1 SepalLengthCm 150 non-null
                                       float64
     2 SepalWidthCm 150 non-null
3 PetalLengthCm 150 non-null
                                       float64
                                       float64
     4 PetalWidthCm 150 non-null
                                       float64
     5 Species
                       150 non-null object
     dtypes: float64(4), int64(1), object(1)
     memory usage: 7.2+ KB
data.isnull().sum() # checking for null values in any of the columns
     Td
     SepalLengthCm
                     P
     SepalWidthCm
                     0
     PetalLengthCm
                    0
     PetalWidthCm
                     0
     Species
                     0
     dtype: int64
{\tt data = data.drop(["Id"], axis=1) \# dropping the 'Id' column, as it is unnecessary}
data.info()
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 150 entries, 0 to 149
     Data columns (total 5 columns):
                    Non-Null Count Dtype
     Ø SepalLengthCm 150 non-null
                                        float64
     1 SepalWidthCm 150 non-null
                                       float64
        PetalLengthCm 150 non-null
PetalWidthCm 150 non-null
                                        float64
                                        float64
     4 Species
                        150 non-null
                                        object
     dtypes: float64(4), object(1)
     memory usage: 6.0+ KB
data.Species.replace({"Iris-setosa":"setosa", "Iris-versicolor":"versicolor", "Iris-virginica":"virginica"},inplace=True)
data.describe().T
                     count
                               mean
                                          std min 25% 50% 75% max
     SepalLengthCm
                    150.0 5.843333 0.828066 4.3 5.1 5.80 6.4
                                                                   7.9
      SepalWidthCm
                     150.0 3.054000 0.433594 2.0 2.8 3.00 3.3 4.4
      PetalLengthCm 150.0 3.758667 1.764420 1.0 1.6 4.35 5.1 6.9
```

sns.heatmap(data.corr(),annot=True)

150.0 1.198667 0.763161 0.1 0.3 1.30 1.8 2.5

PetalWidthCm

<Axes: >



sns.pairplot(data, hue="Species")

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6 F \_

Species

setosa versicolor virginica