## ESSENTIALS OF DATA WAREHOUSING AND DATA MINING

LAB ASSIGNMENT - 12

NAME - Kaparotu Venkata Surya Tharani USN - 22BTRAD018 BRANCH - AI & DE

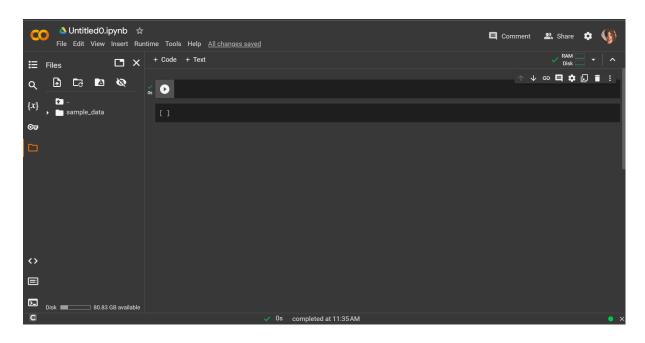
1. Given the irish data. Except for the class attribute, take all attribute value in to a matrix A. Now calculate the corelation coefficiect (without using the direct correlation calculation function from any python library) between each sample (row vector - one irish flower) in matrix A with all the sample in matrix A. And for plotting and validating your calculations correctness, you can use the following code.

## Code:-

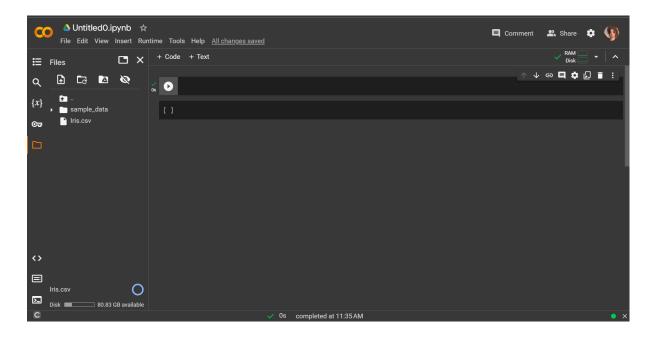
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np
f = pd.read_csv('Iris.csv')
print(f)
print(f.loc[:,:'PetalWidthCm'])
print(f.loc[:,:'PetalWidthCm'].T.corr().loc[:10,:10])
dcorr=f.loc[:,:'PetalWidthCm'].T.corr()
sns.heatmap(dcorr.corr().loc[:10,:10], annot = True, cmap = "coolwarm")
```

## **SCREENSHOTS:-**

1. Click the folder.



2. Click on upload button and select the iris dataset.



3. Write the python code and execute.



## Output:

