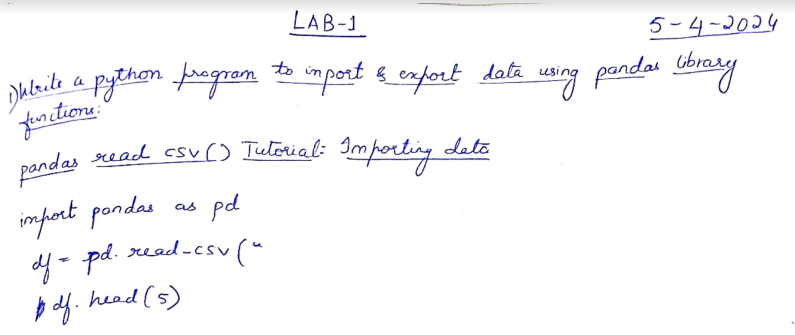
**LAB 1**

Write a python program to import and export data using Pandas library functions.

Importing data

Observation book-snapshot



Code

import pandas as pd

df=pd.read\_csv("/content/austinHousingData.csv")

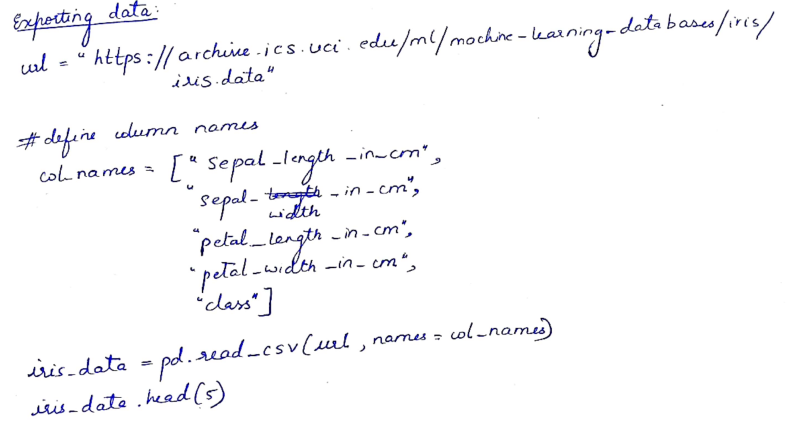
df.head(5)

Output:



Exporting data

Observation book-snapshot



Code

url = "https://archive.ics.uci.edu/ml/machine-learning-databases/iris/iris.data"

# Define the column names

col\_names = ["sepal\_length\_in\_cm",

            "sepal\_width\_in\_cm",

            "petal\_length\_in\_cm",

            "petal\_width\_in\_cm",

            "class"]

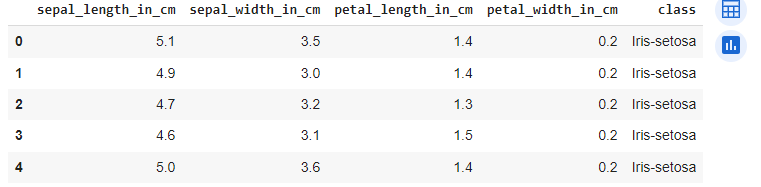
# Read data from URL

iris\_data = pd.read\_csv(url, names=col\_names)

iris\_data.head(5)

iris\_data.to\_csv("/content/exported\_irisData.csv")

Output:



Demonstrate various data pre-processing techniques for a given dataset.

%matplotlib inline

import numpy as np

import pandas as pd

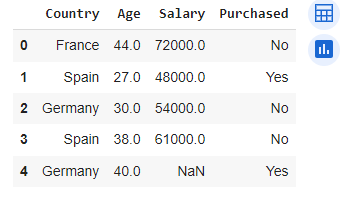
import matplotlib.pyplot as plt

import seaborn as sns

import sklearn

df1=pd.read\_csv("/content/Data.csv")

df1.head(5)



#Identifying and handling the missing values

df1.isnull().sum()

