**Program 1**

**Write a python program to import and export data using pandas library functions?**

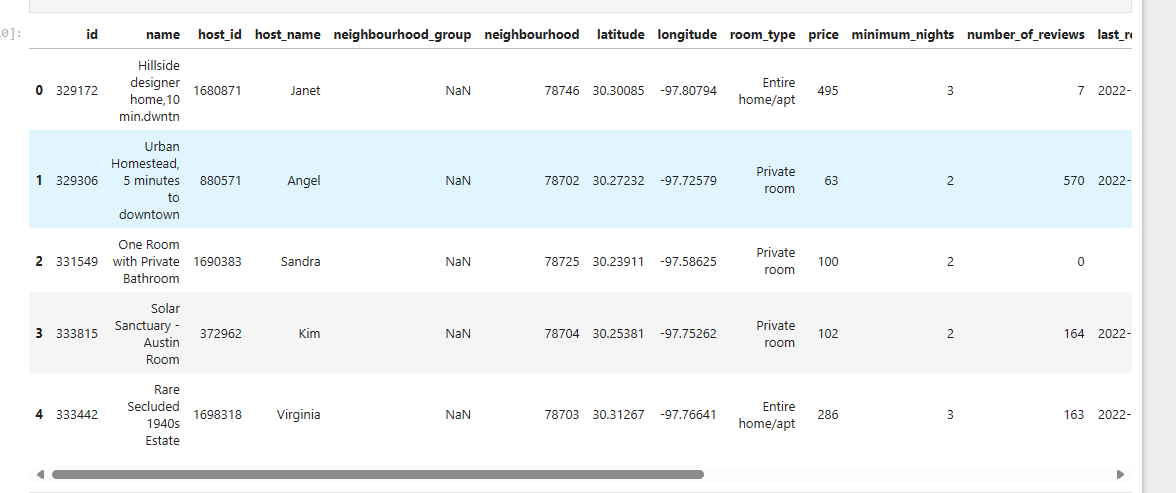
**Code:**

**Import**

import pandas as pd

airbnb\_data = pd.read\_csv("listings (1).csv")

airbnb\_data.head()



**Export**

airbnb\_data.to\_csv("list2.csv")

**Reading the file from the URL:**

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

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

"sepal\_width\_in\_cm",

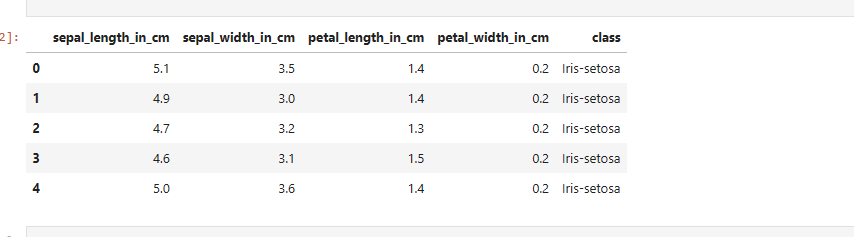
"petal\_length\_in\_cm",

"petal\_width\_in\_cm",

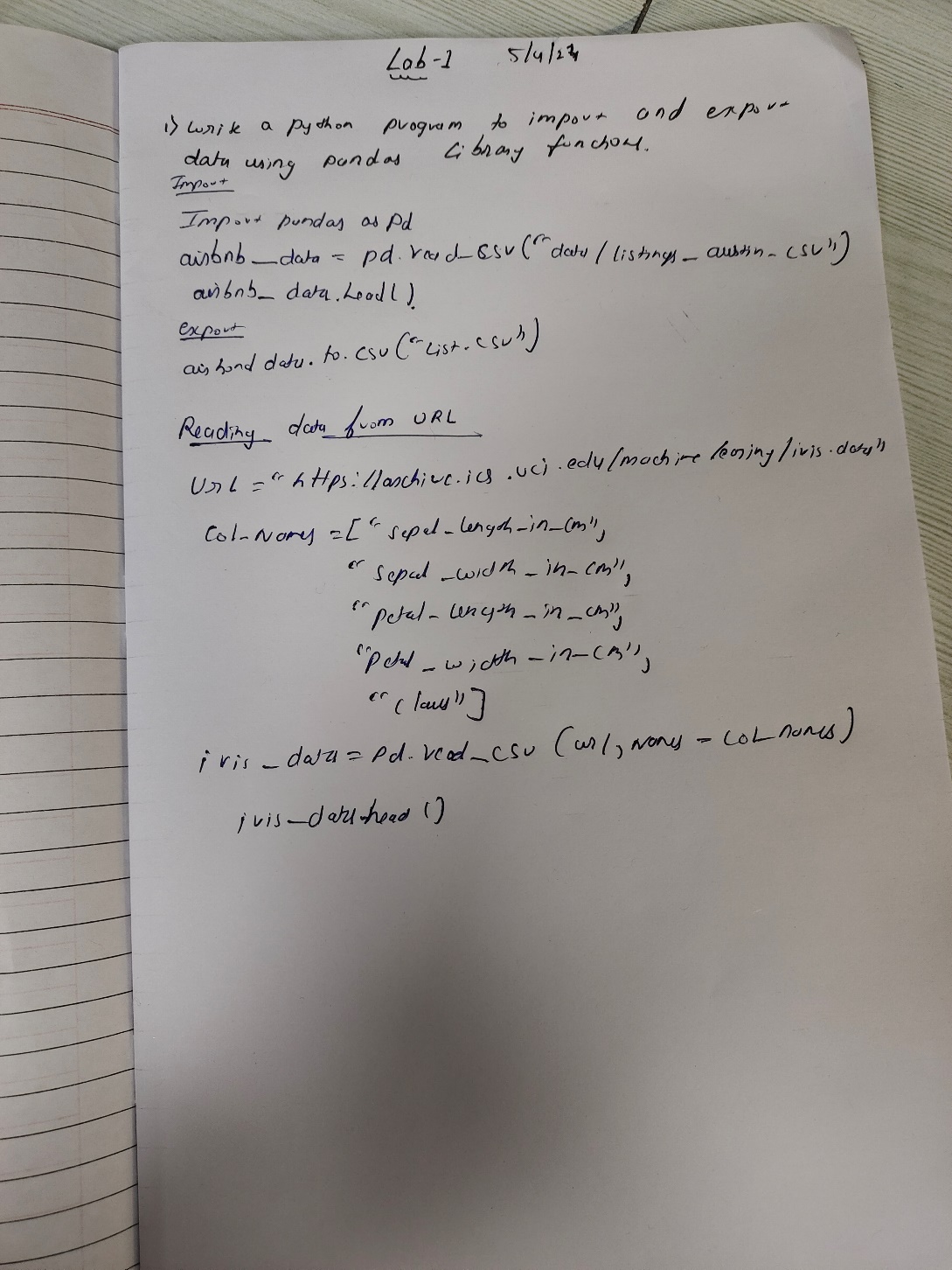
"class"]

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

iris\_data.head()

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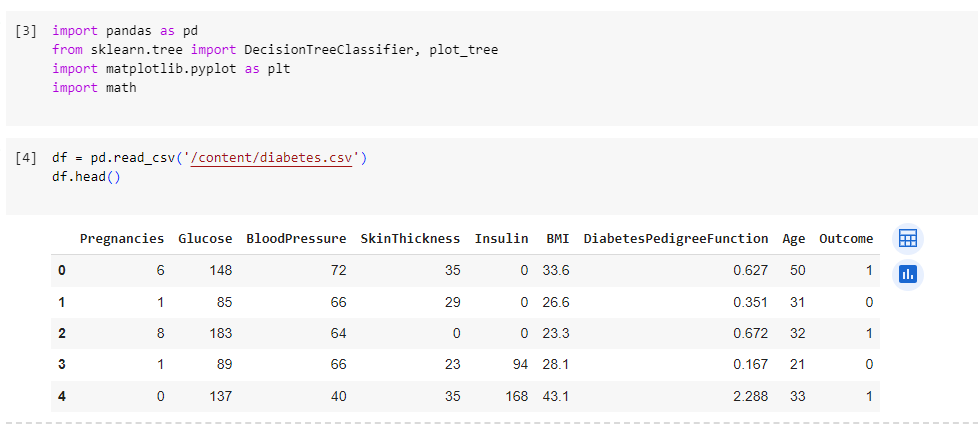
**Screenshot from the lab record:**

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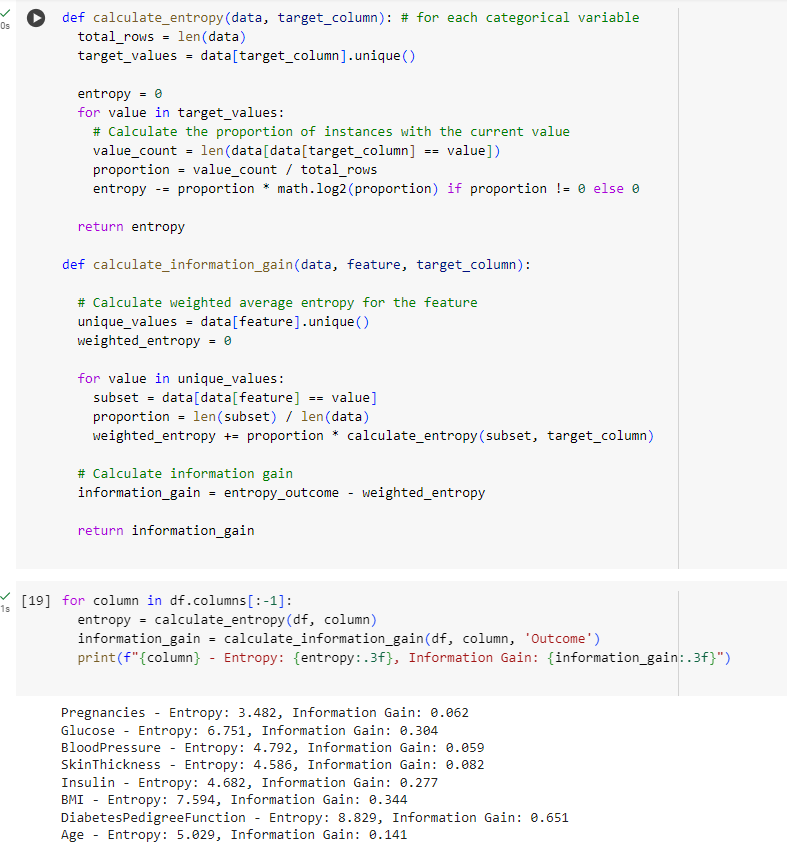
**Program 2**

Use an appropriate data set for building the decision tree (ID3) and apply this knowledge to classify a new sample.

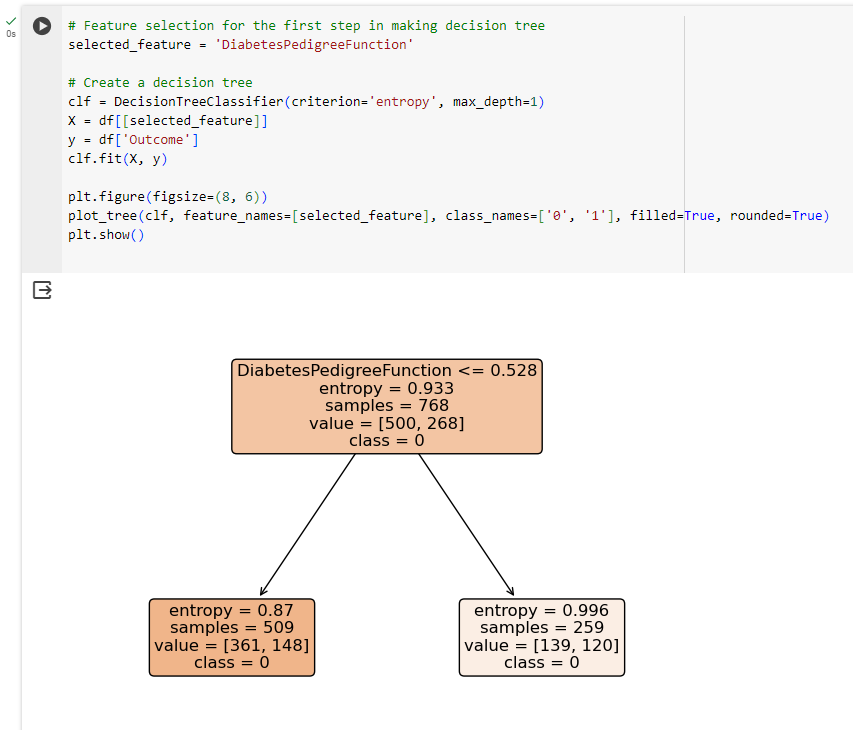
1.importing database



2.Calculating entropy and information gain.



3.Making Decision tree.



4.snapshot.