Lab Assignment 10

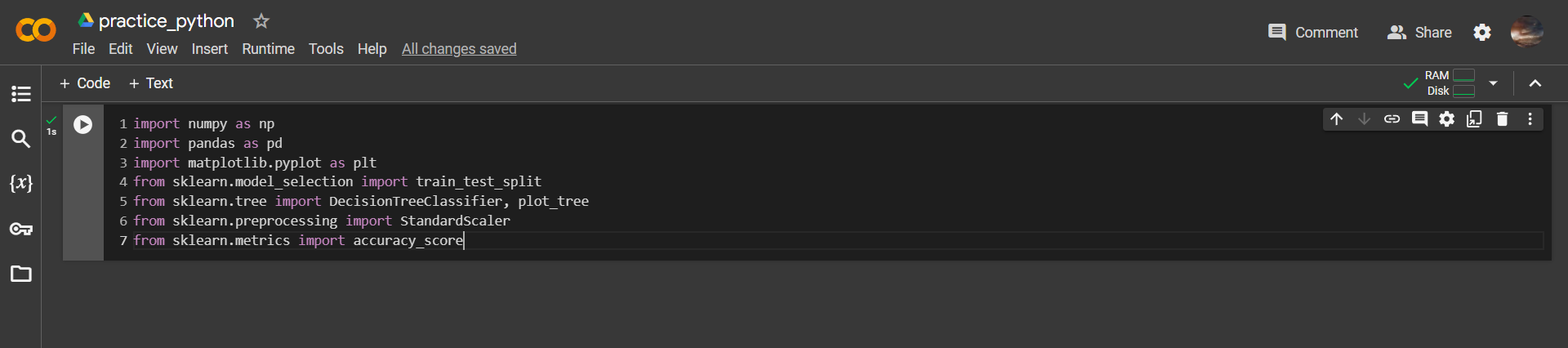
Fundamentals of Machine Learning

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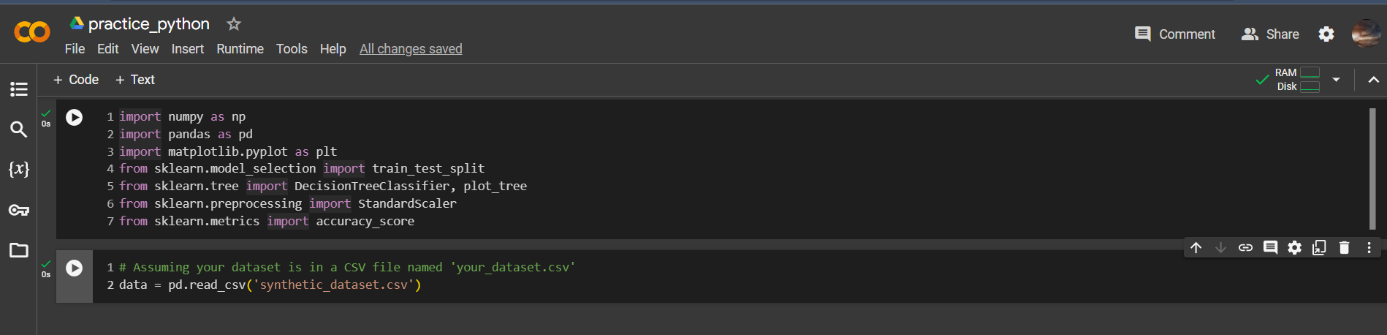
**USN:** 22BTRAD016

Experiment10: Objective: To implement a decision tree using sklearn

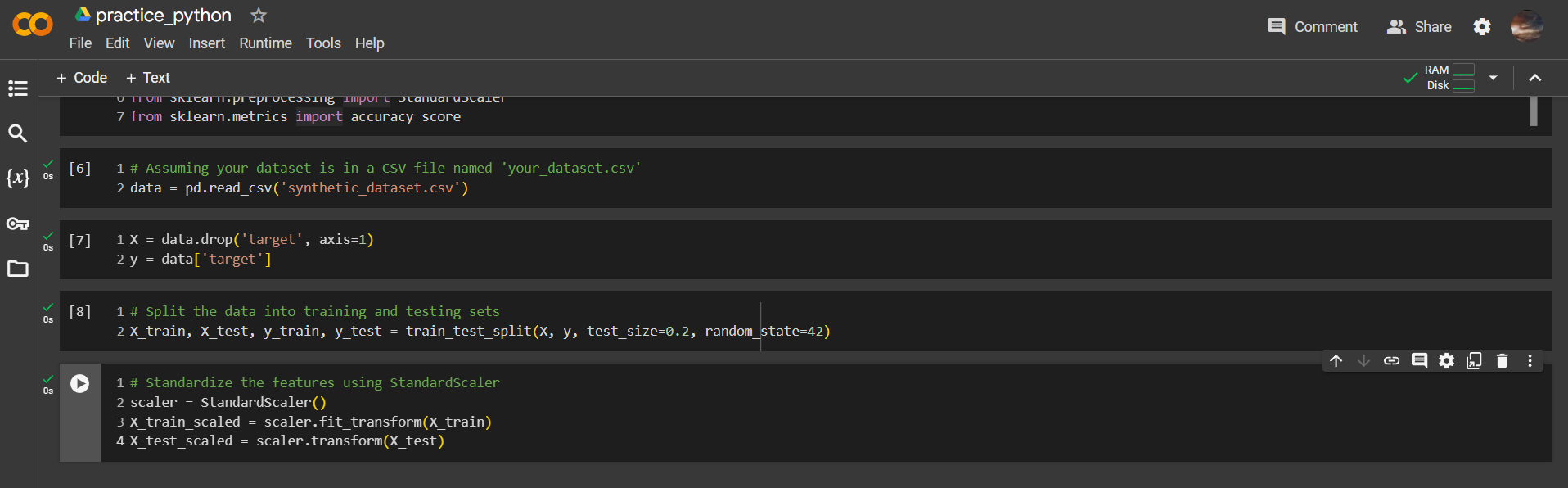
1.Import necessary libraries (e.g., numpy, pandas, matplotlib, sklearn)



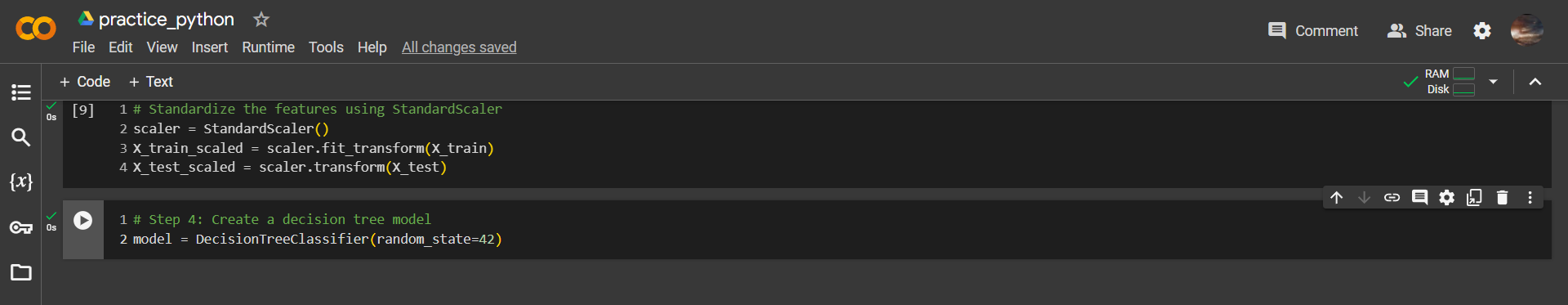
2.Load the dataset using pandas.



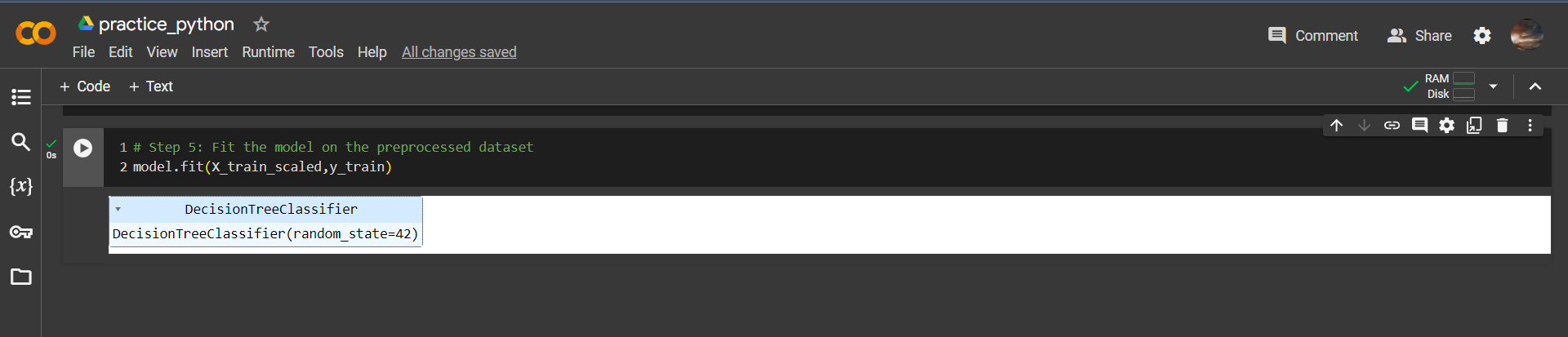
3.Preprocess the dataset using techniques like scaling and normalization.



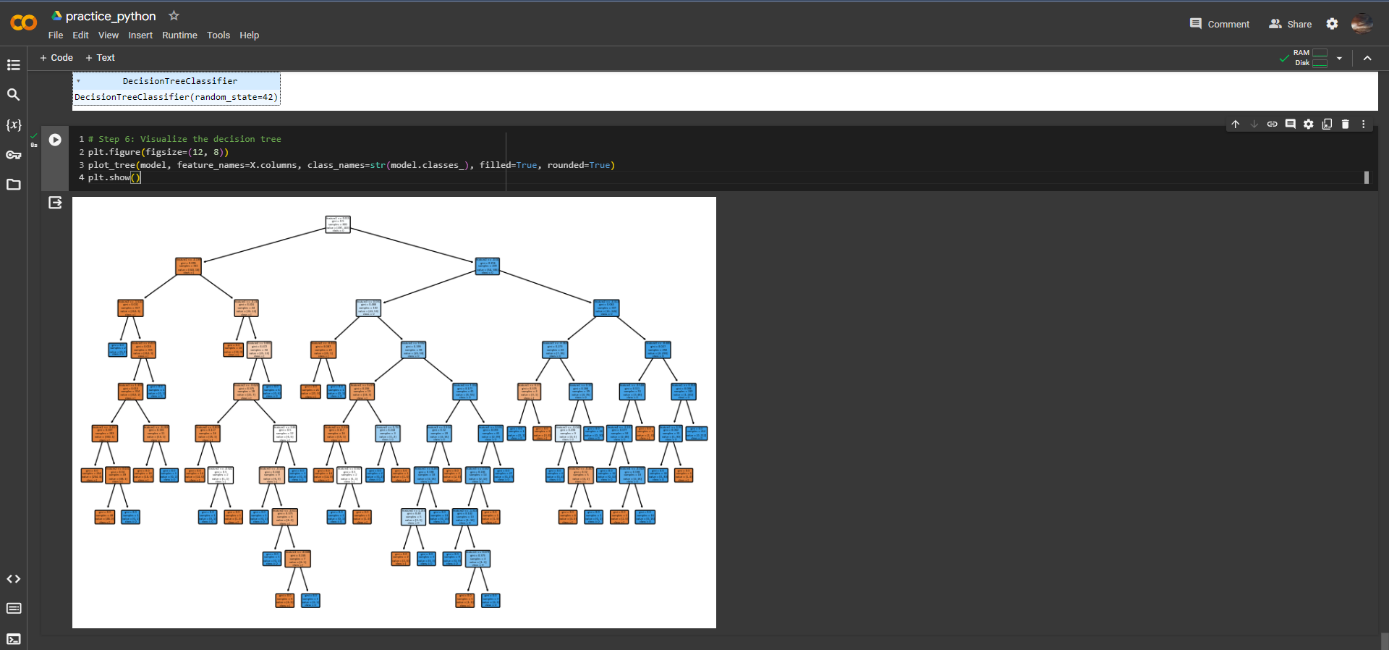
4.Create a decision tree model using sklearn.



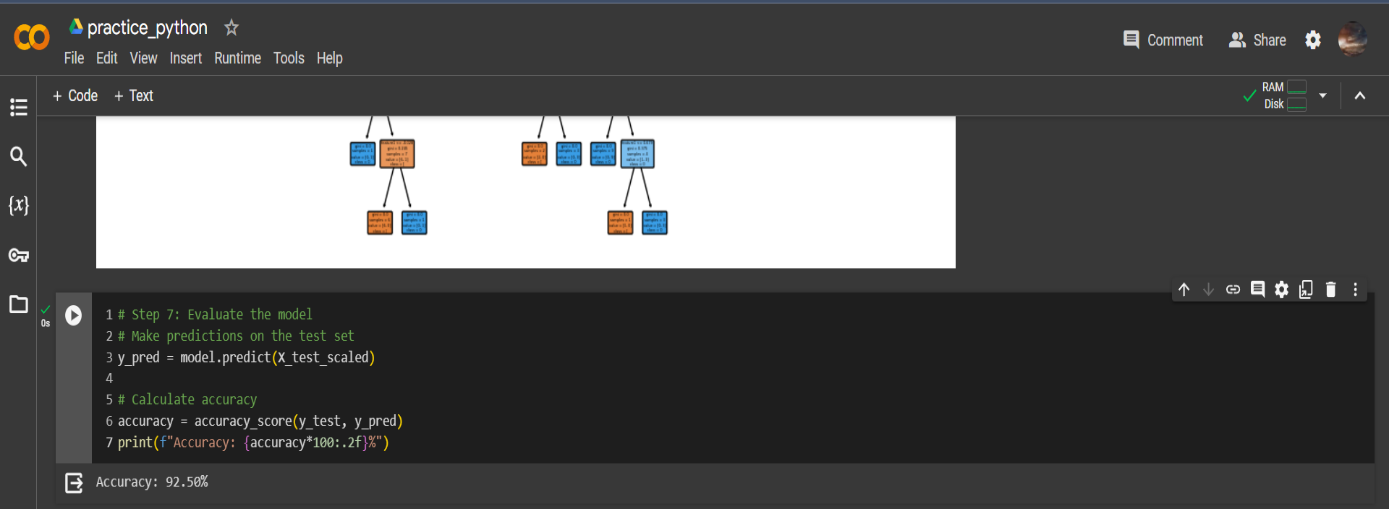
5.Fit the model on the preprocessed dataset.



6.Visualize the decision tree using matplotlib.



7.Evaluate the model using metrics like accuracy. Result: The decision tree model can predict the target variable based on input variables.



Github Link:

https://github.com/Jeyapathy/Machine-Learning