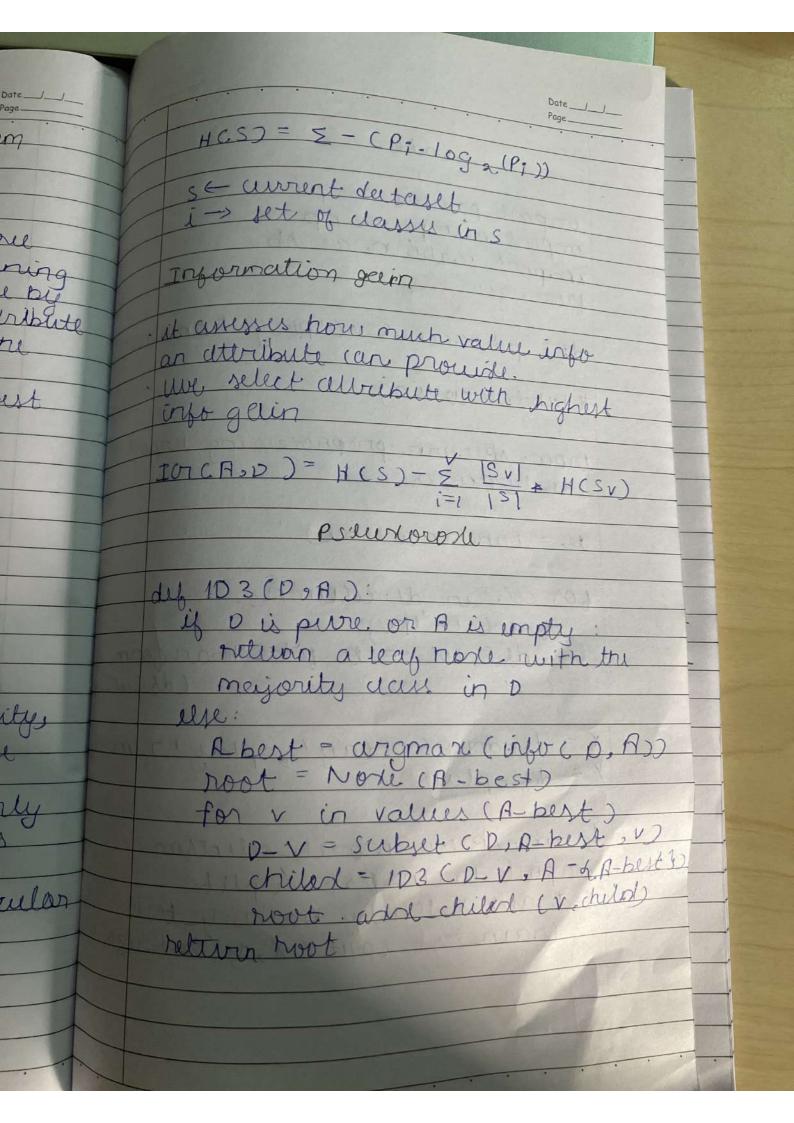
Lab 3: 103 algorithm What is ID3 augorithm? > The 103 is a popular decision true algorithm use in machine learning It aims to build a decision true by iteratively relecting the best attribute to split the data, based on the into gein LLLY to beatures that cutegornial composed to continuous IU ID3 Metries The metries are entropy and information gain Entropy also rejuried to as genri impurity. it measures randomness in the datants high entropy data sets we evenly distributed airos are categories where low entropy ones have data concentration at jew penticular points



Code import pandas as pd import seaborn as Ab from gou do = pd. read\_csvc'play-tennis.csvj # label encosting from skleurn preprocessing import Label Freder se = Lapel Encoder () for col in df. columns

is col = dery:

df [ col7 = le. fit - transform

(df [col7) X = db drop(['day' , 'play'], axis=) from sklear model selection import train-test - split X train, X test, y noun, y teste = train lost split CX, y test size=01

