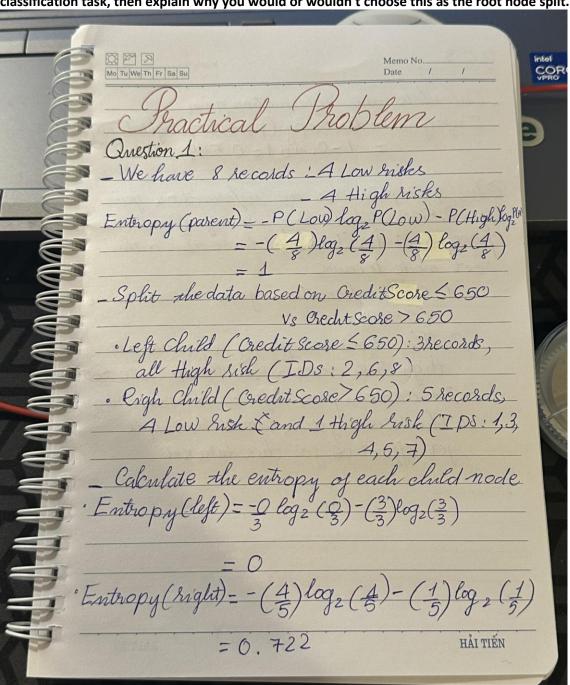
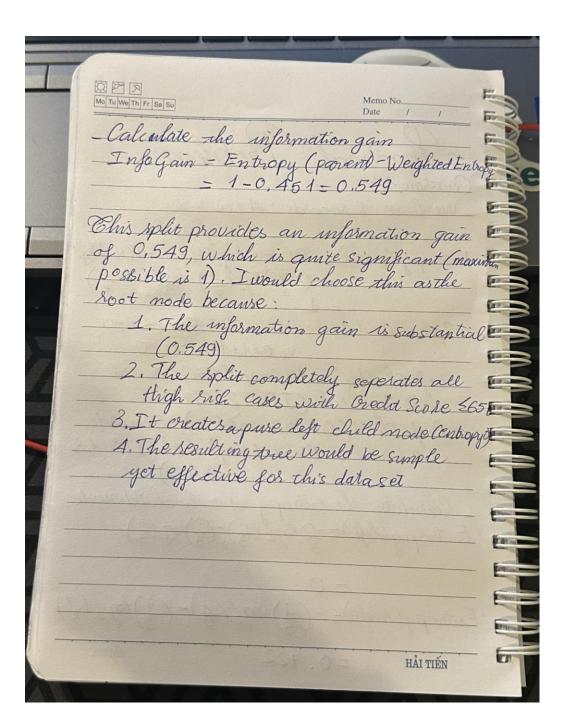
Question 1: Calculate the information gain for splitting CreditScore at 650 in a decision tree classification task, then explain why you would or wouldn't choose this as the root node split.





Question 2: For a regression decision tree predicting CreditScore, calculate the variance reduction when splitting on Age=35, and describe how this splitting criterion differs from information gain in classification trees.

