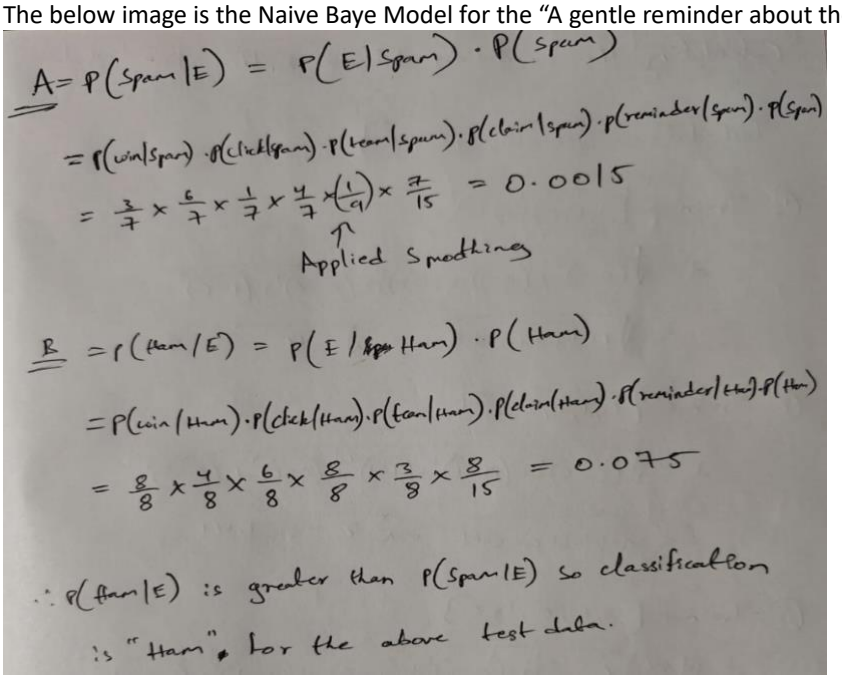
1a: Manually calculate prediction using the Naive Bayes Model and K nearest neighbor for the test example you are assigned

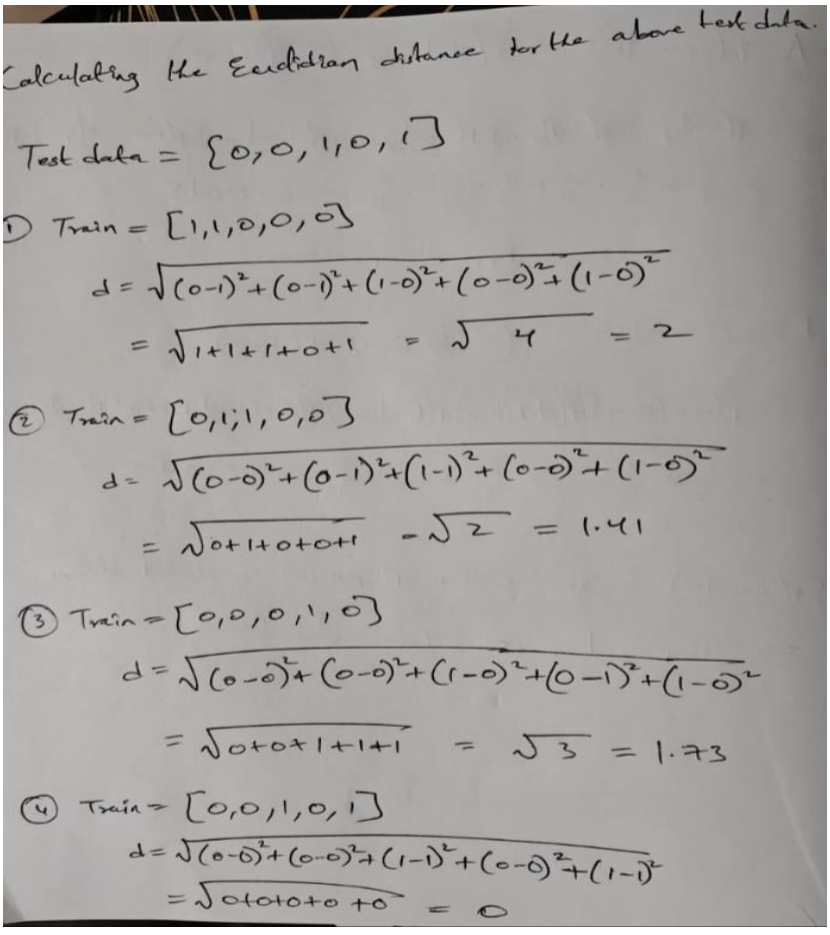
The below image is the Naive Baye Model for the “A gentle reminder about the team's presentation tomorrow”-->[0,0,1,0,1]

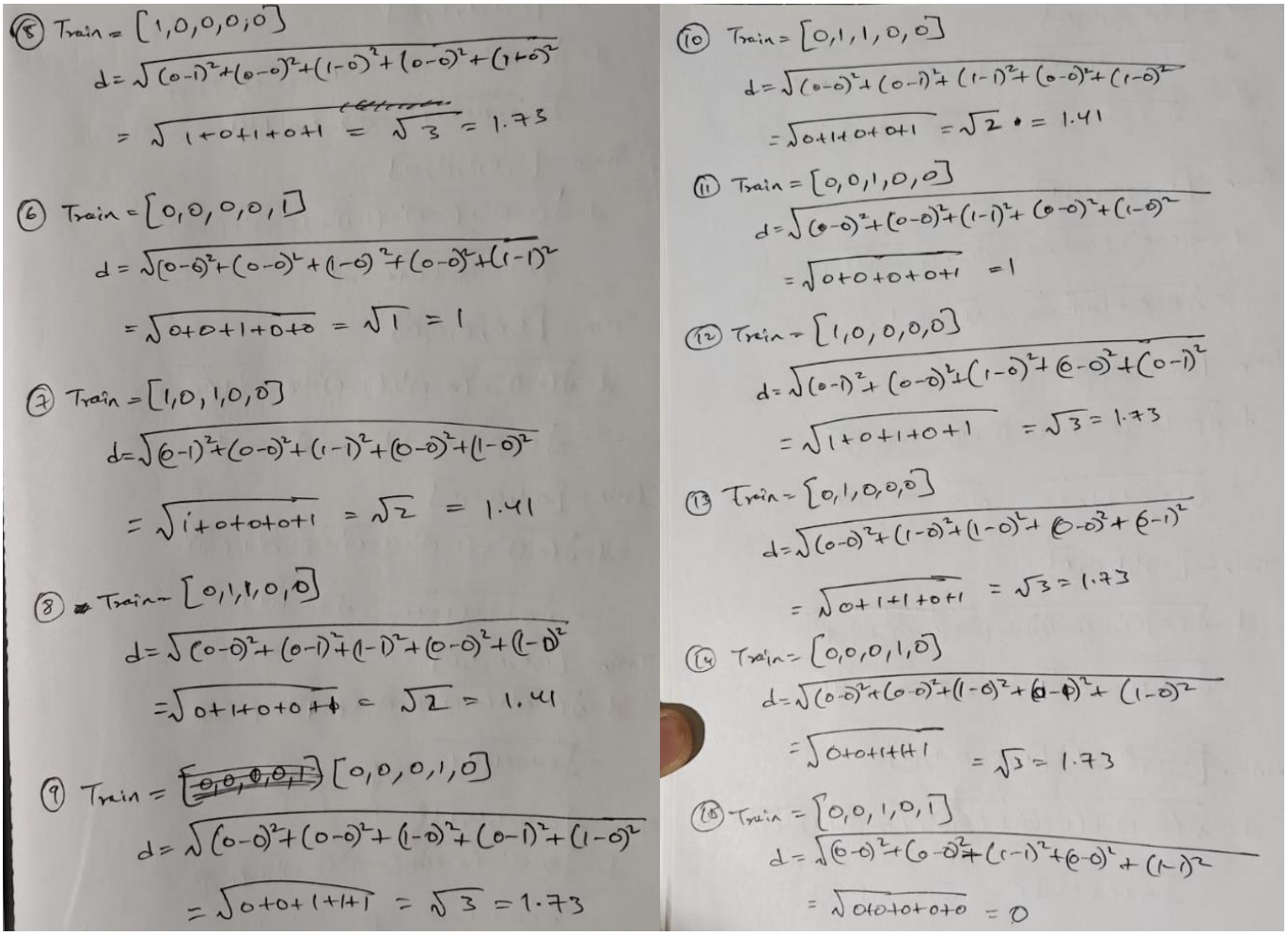


P(Ham|E) .P(Ham) =0.075 is greater than the P(Spam|E). P(Spam)=0.0015

So the message A gentle reminder about the team's presentation tomorrow is classified ad “Ham”

1(b)The below images are the K nearest neighbor for A gentle reminder about the team's presentation tomorrow where K=3.





The 3NN for "A gentle reminder about the team's presentation tomorrow" are listed below:
"A reminder for tomorrow's team-building exercise."
"The reminder for project deadlines is attached."
"Reminder: Year-end team gathering is on the 20th"
All three nearest neighbors are classified as "Ham". Therefore, the predicted classification for the test message "A gentle reminder about the team's presentation tomorrow" is also "Ham".