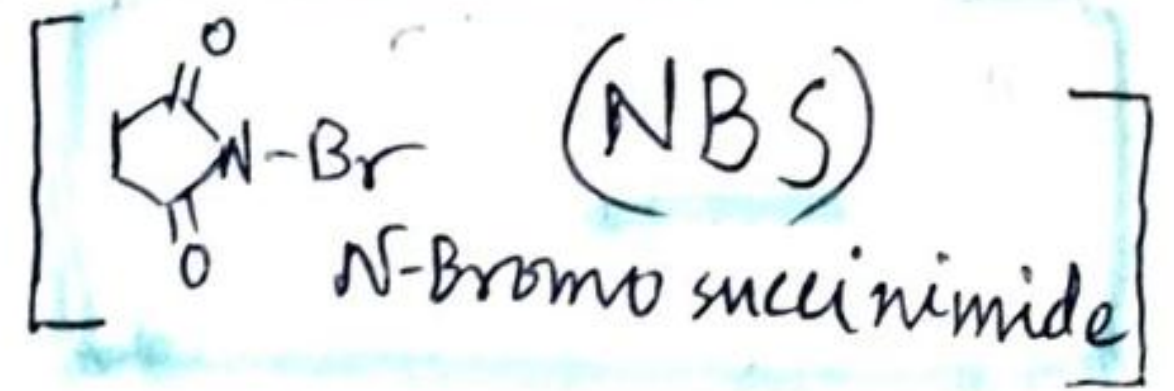
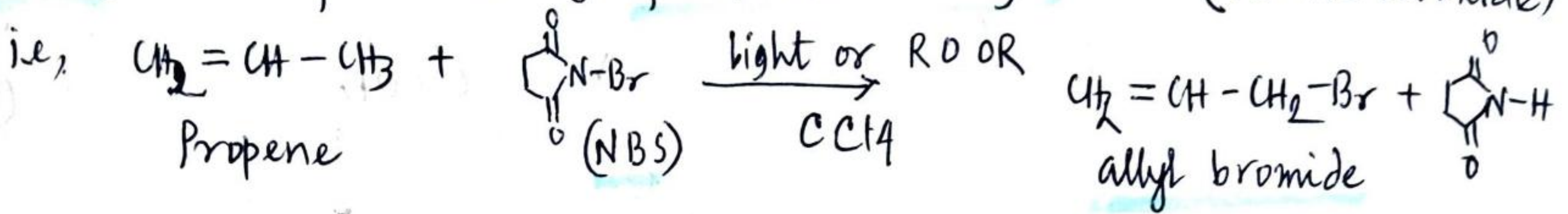


Allylic bromination using NBS

(NBS provides low concentration of Br₂)

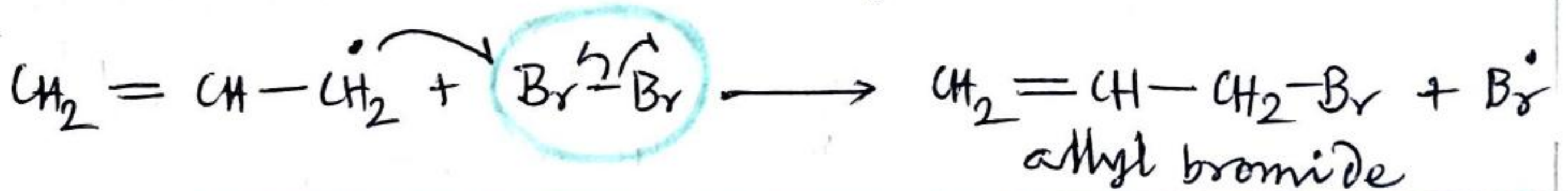
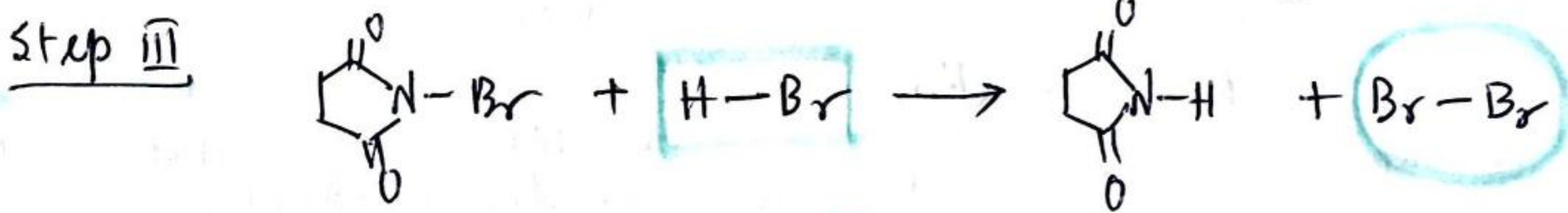
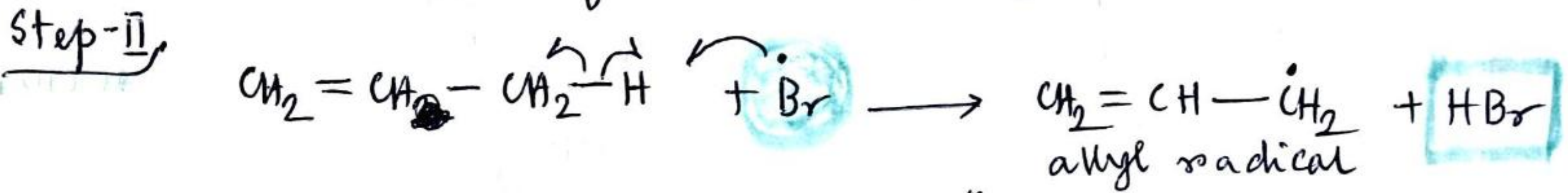
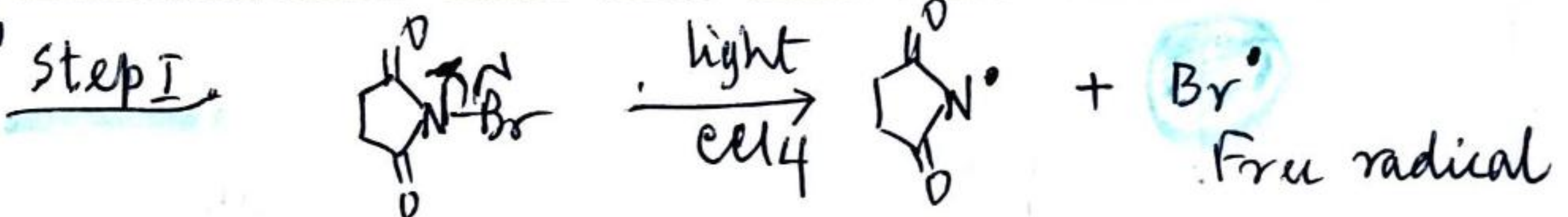


Propene undergoes allylic bromination when it is treated with NBS in CCl₄ in the presence of peroxides or light. (ROOR = Peroxide)

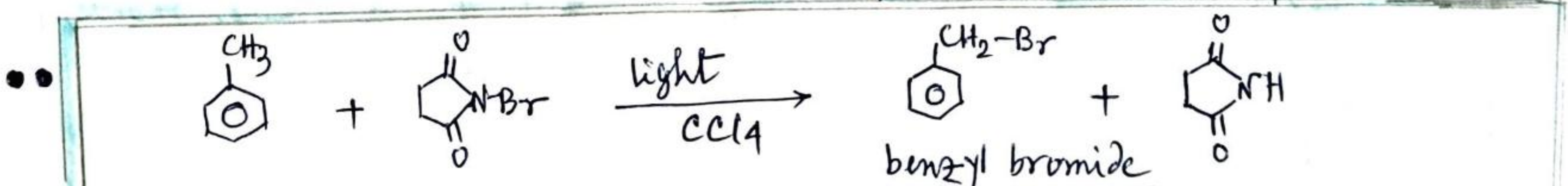
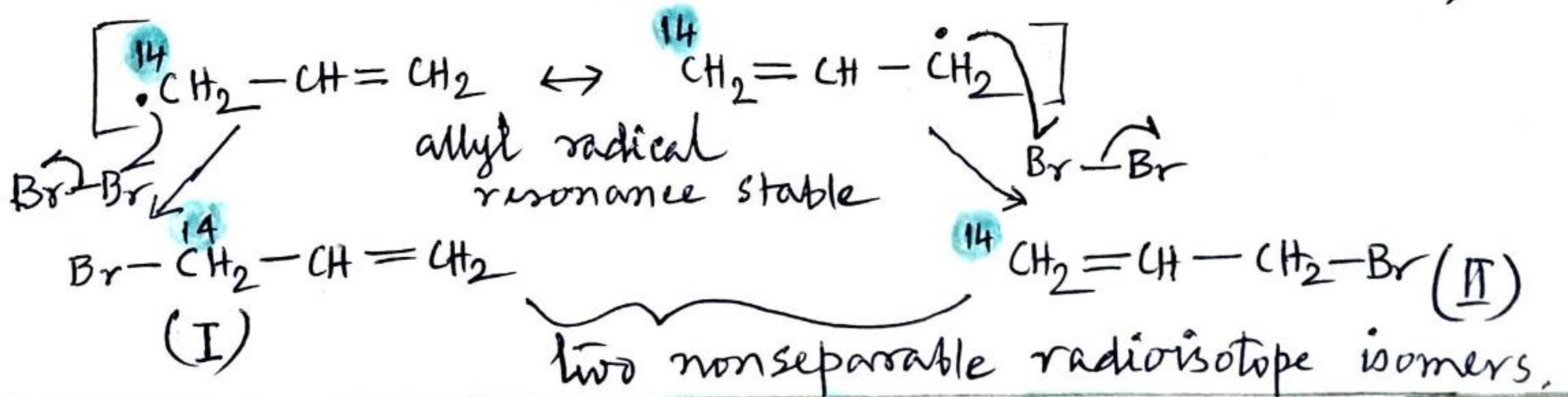


NBS is nearly insoluble in CCl₄ as gives a constant but very slow concentration of bromine. [Please use ~ arrow]

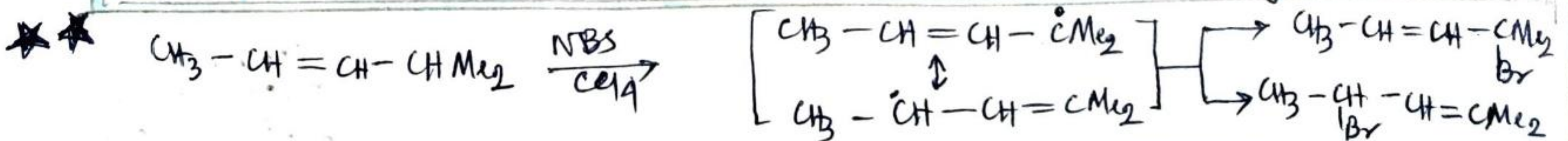
Mechanism's



Now the situation for ¹⁴C labelled propene + NBS \Rightarrow

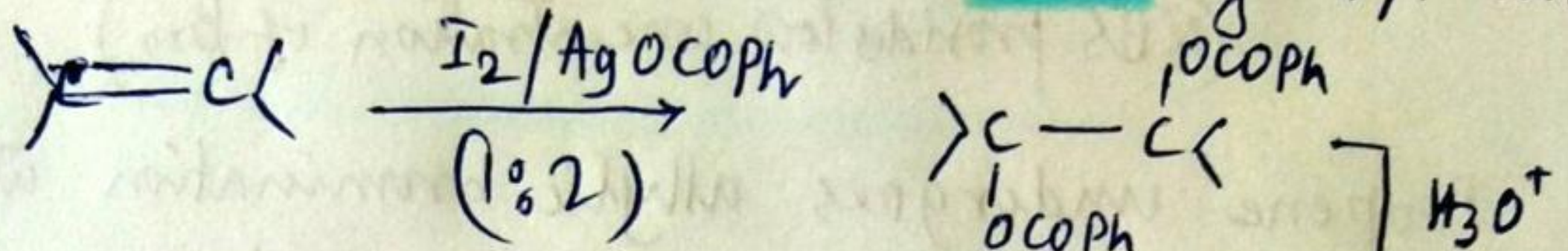


HW This is an example of benzylic bromination. YOU TRY the mechanism as allylic bromination

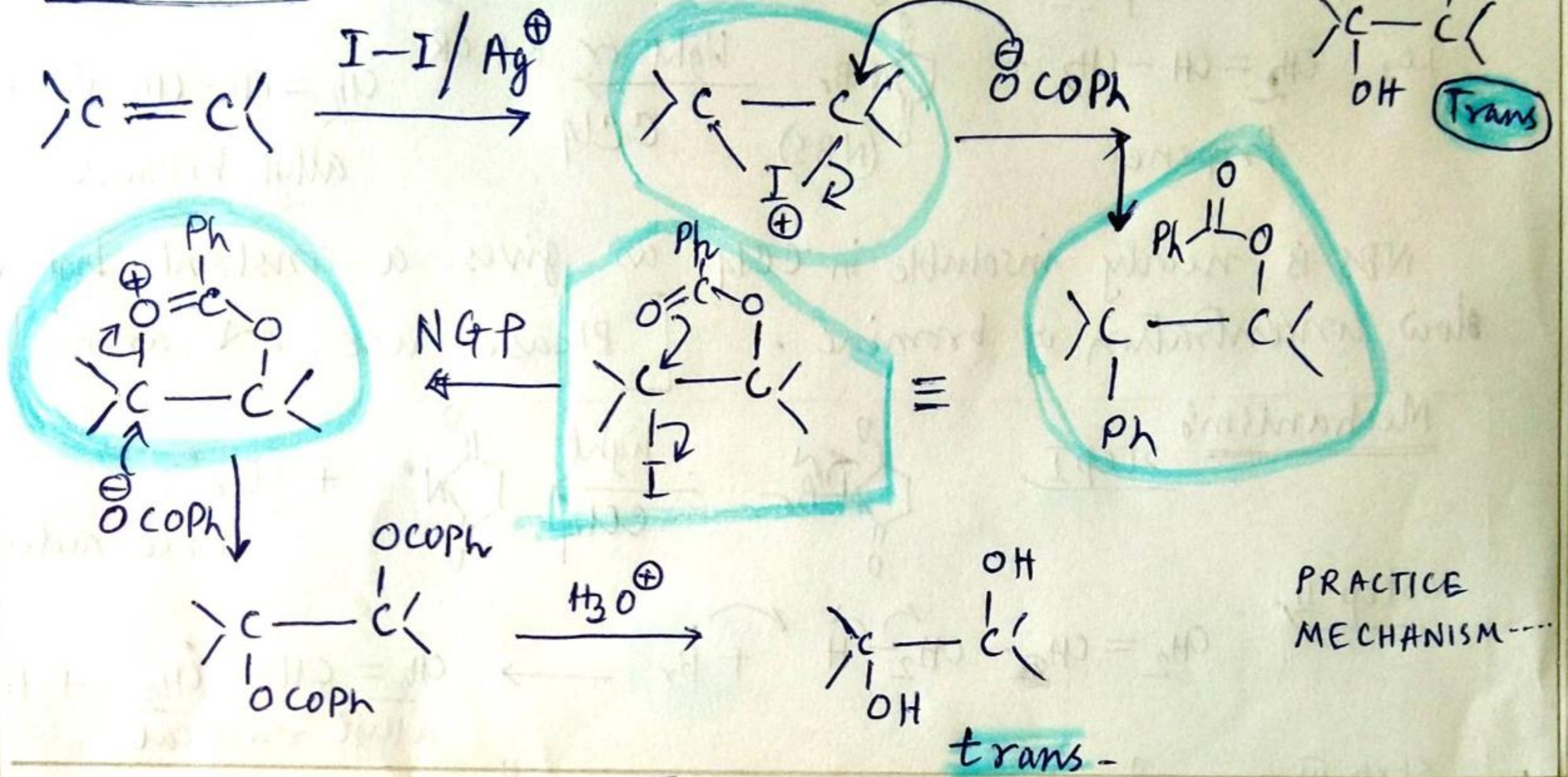


PREVOST HYDROXYLATION:

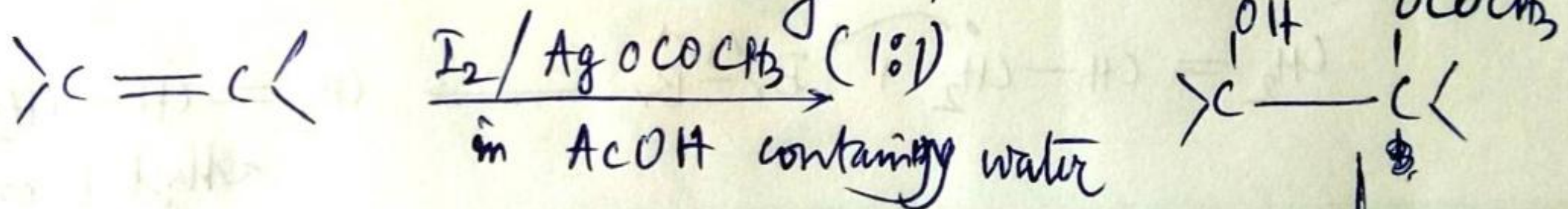
Prevost designed a useful method for trans-hydroxylation of an alkene.



Mechanism:



• Woodward Hydroxylation: Woodward modified the above method to obtain cis-hydroxylated product.



Mech:

