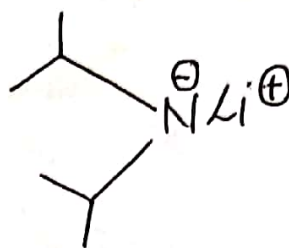


LDA

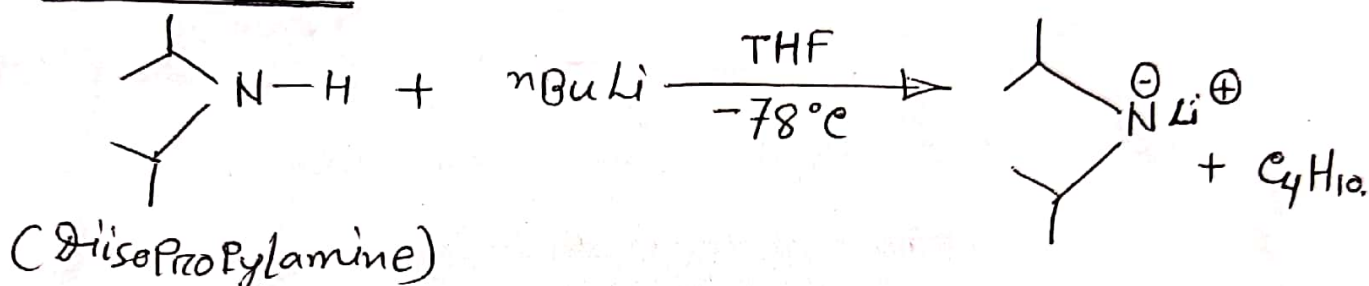
①

Lithium Diisopropyl Amine

Structure:



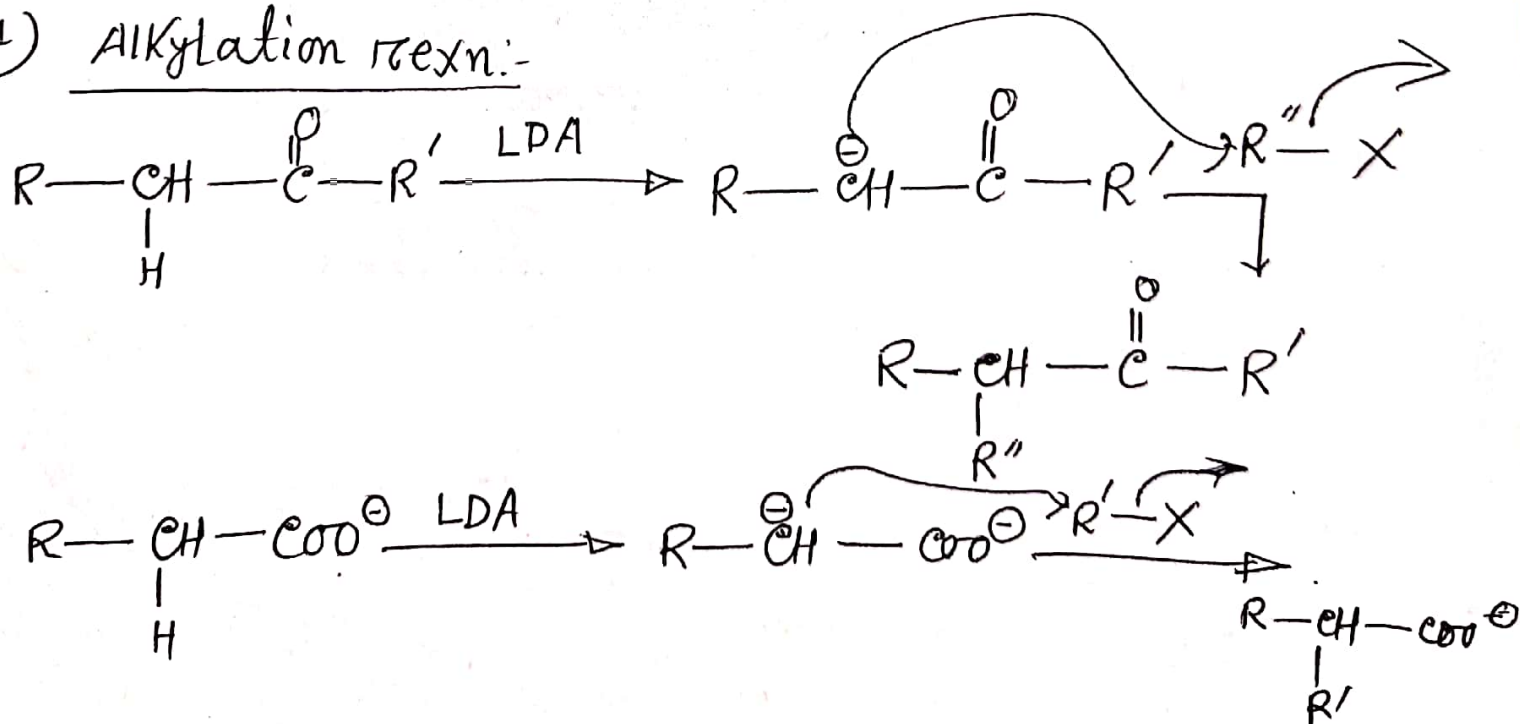
Preparation:



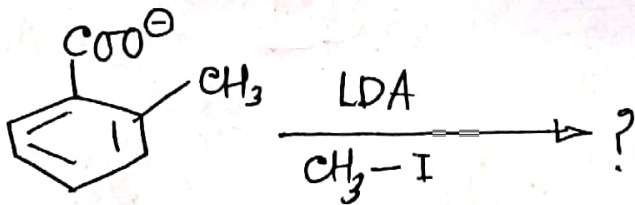
- * It is used as strong base
- * It is used to prepare lithium enolate

Reactions:

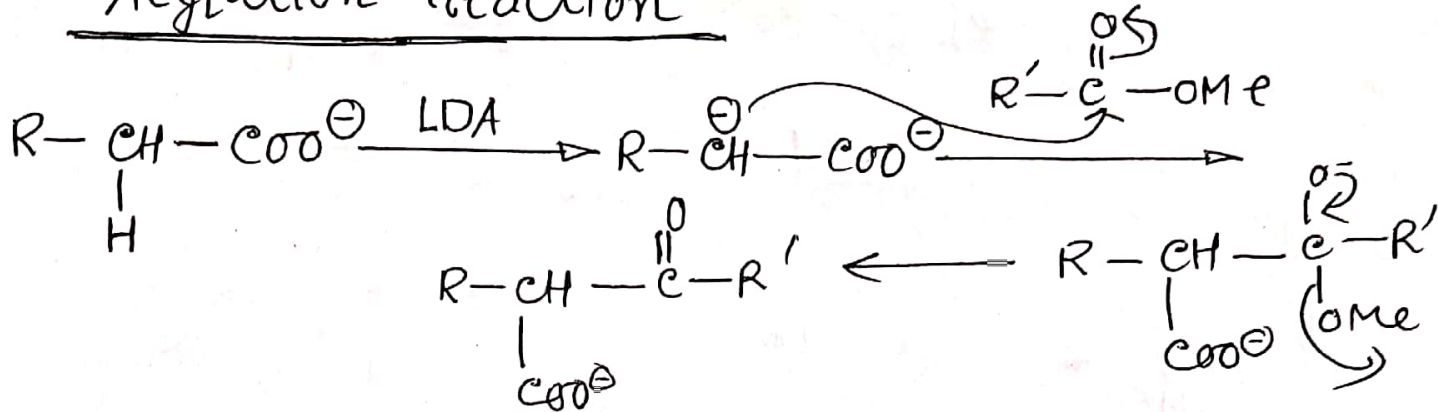
1) Alkylation rxn:-



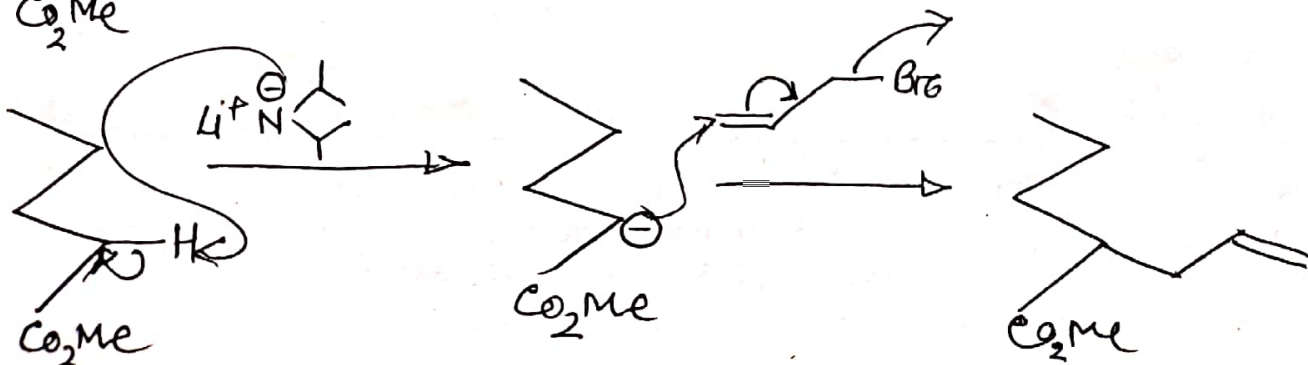
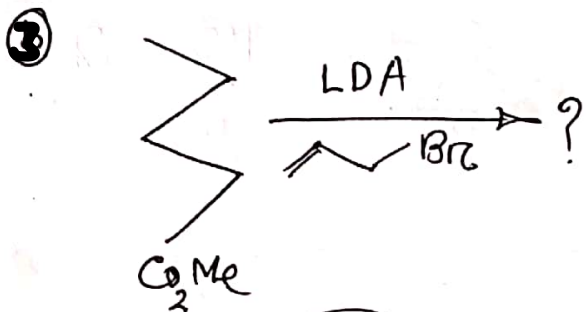
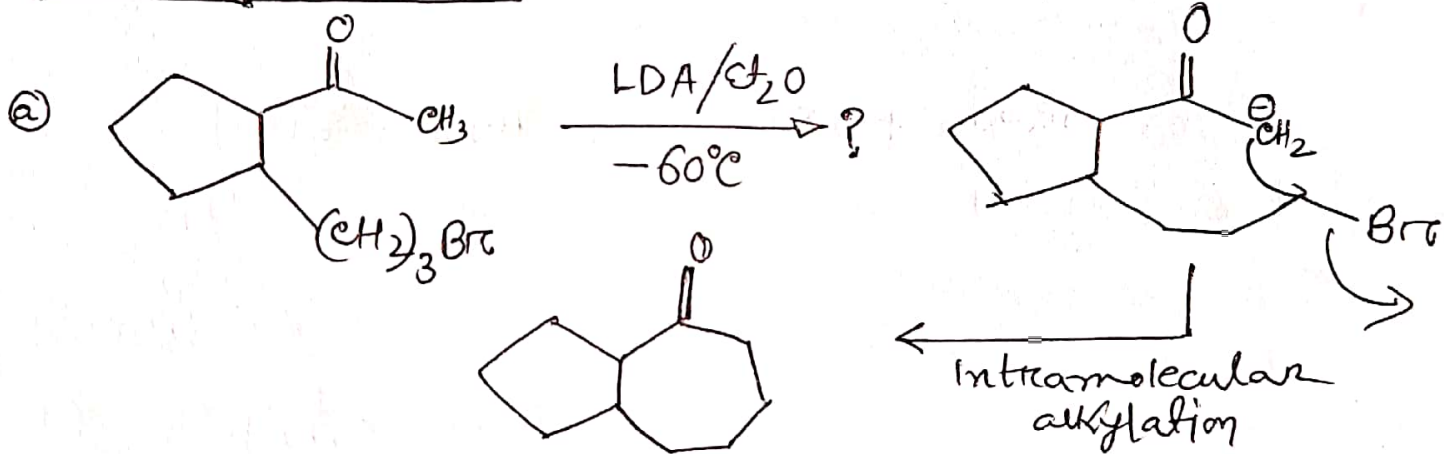
HW

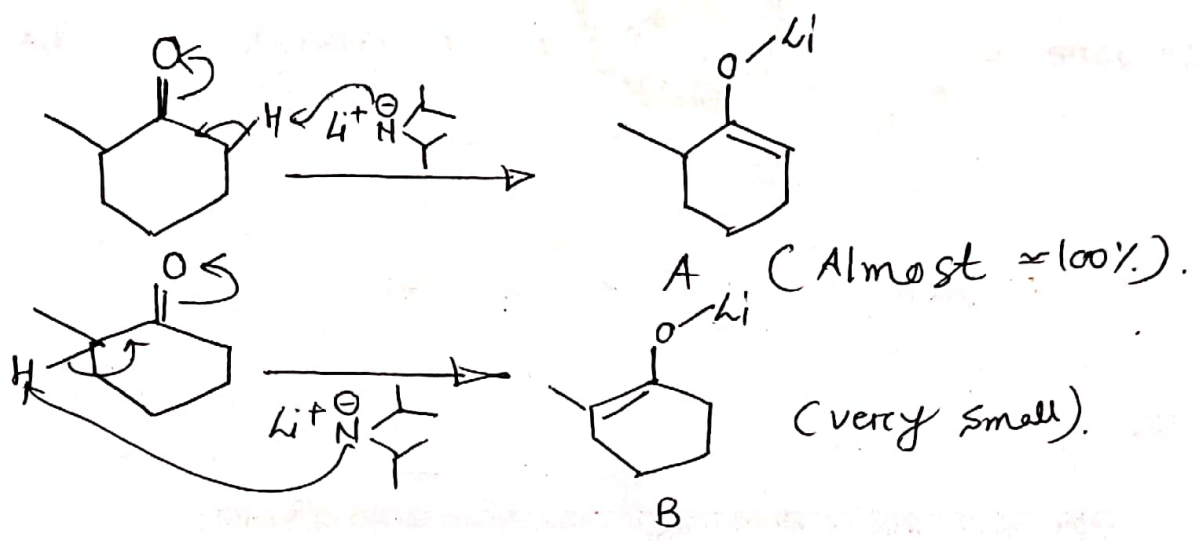
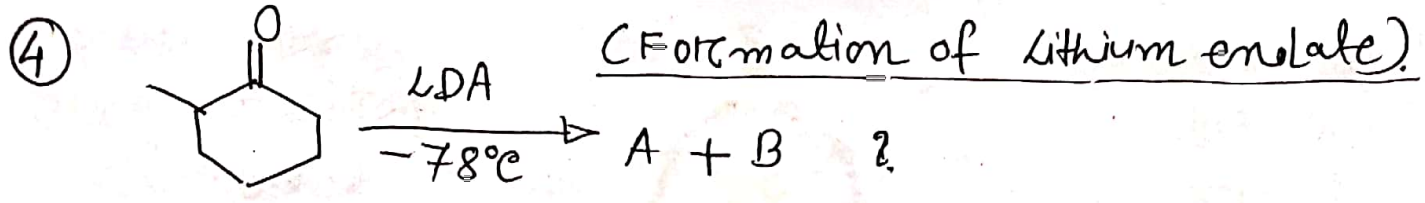


2) Acylation reaction

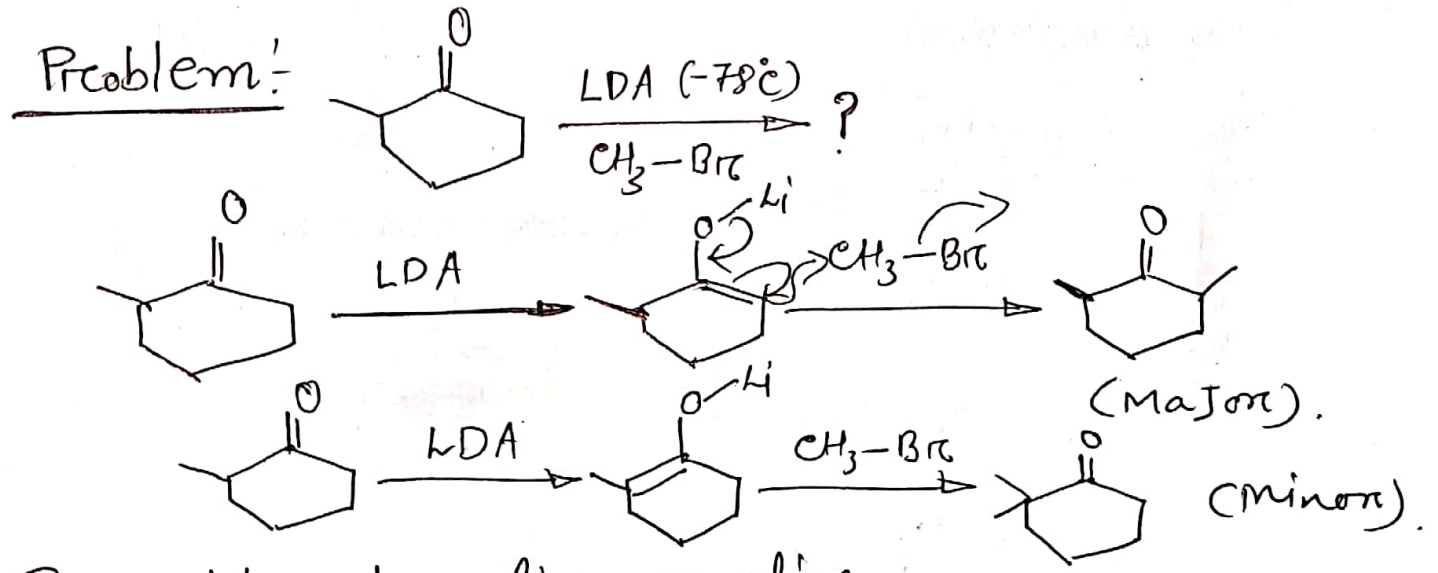


Problem & solution





Because of bulky size of the base it abstracts proton from less sterically hindered position. So less substituted lithium enolate is formed as major product.



④ Aldol condensation reaction

