GENERAL INTRODUCTION

Numerous fatty acids are now more available in pure form which makes them attractive for providing chemistry with a wealth of reactions in which fatty acids were used as a raw material in a variety of industrial products like, pharmaceutical, cosmetics, foods, surfactants, paints, textiles, plastics and rubber.

This encourage us to continue our progress in utilizing the fatty acid as a low cost starting material for synthesizing some biologically active heterocyclic compounds like benzoxazinone, quinazolinone, thiadiazole, ...etc, most of these compounds having an active hydrogen atom which can be ethoxylated and having a long alkyl chain with molecular weight suitable for becoming an amphiphilic molecule with the correct hydrophilic-lipophilic balance enhancing the solubility, biodegradability, lowering the toxicity to human beings and to environment to be suitable for divers applications like the manufacture of drugs, emulsifier, cosmetics,.....etc (i.e having a double function as antimicrobial and as a surface active agents.