## 11 An Eager Functional Language

what should we do?

## 1. Motivation.

D In Chaplo, we leavent the lambda calculus and
the eager evaluation for it. They form the basis of most
(or nearly all) call-by-value functional programming languages
(such as Ocaml. Clojune, Scala, Scheme etc. But developing such
a real programming language. involves much more than

(eager, functional)

adopting

including the lambde calculus and the eager evaluation.

The goal of this chapter and the subsequent few chapters

To to understand these additional things

- 2) In the chapter, we will study two topics related to.
  the following questions. (mainly)
- i) In order to solve most real-world Computational problems naturally, a functional programming language Should \_\_\_\_ include constants and operations for primitive types, such as int, and mechanisms for building data structures. How can we do this? How should we change the abstract grammar, the notion of canonical forms, evaluation helation and denotational ii) Also, we need to support necursive definitions. I semantics?
- 3 We will focus on answering these questions. Reynolds explains a lot more than what we will cover. He even gives well-known examples of functional programming. If you are interested in threw, have a look at Chaplo.