

FACULTY OF ENGINEERING & TECHNOLOGY

Brajesh Mishra

Assistant Professor Department of Computer Science & Engineering

Functional Programming Advantages of Functional Programming Logical Programming

- Functional programming languages are specially designed to handle symbolic computation and list processing applications
- Functional programming is based on mathematical functions
- Functional programming languages are categorized into two groups:

Pure Functional Languages

- These types of functional languages support only the functional paradigms. For example - Haskell

Impure Functional Languages

- These types of functional languages support the functional paradigms and imperative style programming. For example – LISP
- Functional programming supports higher-order functions and lazy evaluation features

- Functional programming offers the following advantages:
 - Bugs-Free Code
 - Efficient Parallel Programming
 - Efficiency
 - Supports Nested Functions
 - Lazy Evaluation



- Programs are written in the language of some logic.
- Logic programming is a computer programming paradigm in which program statements express facts and rules about problems within a system of formal logic.
- Some logic programming languages, such as Datalog and ASP (Answer Set Programming), are purely declarative
- Such languages are similar to the SQL database language.

