Midterm Project

For each of the problems described below, explain which paradigm (Object-Oriented or Logical) would best be suited to create the solution. Be sure to explain your reasoning.

1. You require a program that is fast, and simple to model.
2. You are creating a complex model of real-world phenomena.
3. You are dealing with complex data structures.
4. You are working with a large database of facts.
5. You can infer a solution through provable relations.

What is the difference between Declarative Programming and Imperative Programming? What are their strengths & weaknesses? Why use one over the other? Be sure to explain your reasoning.