

Program with Delphi and Object Pascal

Introduction

- Source Code Archive
- Installing the software
- Your first program: 'Hello world'
- Load and run a sample project
-

Fundamentals of Pascal

- Variables
- Constants
- Comments

Procedures and Functions

- Procedures and Functions
- Passing arguments by value and by reference
- Form Methods
- Sample program: calculating interest rates

Data Types, Operators and Scope

- Data Types
- Parameters and type-checking
- Arithmetic Operators
- Scope

Loops and Arrays

- 'for' Loops
- Case Statements
- 'while' and 'repeat' loops
- Arrays

User defined types and File IO

- User-defined types
- Records
- File IO
- Saving and loading text files

Object Orientation

- Introduction to Object Orientation
- Classes and Objects
- Saving and Loading Objects

Class Hierarchies

- How to create a class hierarchy
- Forms and controls as Objects
- Code completion for classes
- Virtual methods
- Properties

Getter Properties

- Exception-handling and Debugging
- Exceptions
- Error-recovery
- Debugging

Going further

- Write an adventure game!
- Serialization
- Additional Resources
- Going further...