INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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IronPython

Introduction to IronPython

1.1 Overview of IronPython

1.2 History and Evolution

1.3 Features and Advantages

1.4 Installation and Setup

Basic Syntax and Data Types

2.1 Python Syntax Refresher

2.2 Variables and Data Types

2.3 Operators

2.4 Control Flow (if, elif, else, loops)

Working with .NET Framework

3.1 Introduction to .NET Framework

3.2 .NET Libraries and Assemblies

3.3 Interacting with .NET Objects

3.4 Importing .NET Assemblies

3.5 Calling .NET Methods and Properties

Advanced IronPython Concepts

4.1 Exception Handling

4.2 Working with Collections (Lists, Tuples, Dictionaries)

4.3 Object-Oriented Programming in IronPython

4.4 Lambda Functions and Closures

4.5 Decorators

GUI Development with IronPython

5.1 Introduction to GUI Development

5.2 Using Windows Forms

5.3 Creating GUI Applications with WinForms

5.4 Event Handling in WinForms

Database Connectivity

6.1 Overview of Database Connectivity in IronPython

6.2 Connecting to Databases (SQL Server, SQLite, etc.)

6.3 Executing Queries

6.4 Handling Results

Web Development with IronPython

7.1 Introduction to Web Development

7.2 Using IronPython with ASP.NET

7.3 Creating Web Applications

7.4 Handling HTTP Requests and Responses

Testing and Debugging IronPython Code

8.1 Overview of Testing Frameworks

8.2 Unit Testing IronPython Code

8.3 Debugging Techniques

Integrating IronPython with Other .NET Languages

9.1 Overview of Interoperability

9.2 Calling IronPython from C# or VB.NET

9.3 Passing Data Between IronPython and Other Languages

Best Practices and Optimization

10.1 Writing Clean and Maintainable Code

10.2 Performance Optimization Techniques

10.3 Documentation and Code Comments

Real-world Projects and Case Studies

11.1 Building Desktop Applications

11.2 Web Development Projects

11.3 Data Analysis and Visualization