

# DIGISNARE TECHNOLOGIES

## Python Programming Training



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**Python Programming Course Syllabus**

## Introduction

- Why do we need python
- Program structure
- Execution steps
- Interactive Shell
- Executable or script files
- User Interface or IDE

## Python Basics

- Python Keywords and Identifiers
- Python statements
- Python Indentation
- Comments in python
- Command line arguments
- Getting user input

## Syntax, Keywords and Operators

- Python Identifiers
- Various Operators and Operators Precedence
- Reserved Words, Lines and Indentation
- Multi-Line Statements, Quotation in Python
- Comments in Python, Using Blank Lines
- Command Line Arguments
- Python Input/Output: Using the Print Function
- Getting Input from User
- Python Basic Data Types And Variables

## Variables and data types

- Introduction
- Variables
- Data types
- Numbers
- Strings
- Lists, tuples & Dictionary

## Decision making & Loops

- Introduction
- Control Flow and Syntax
- Python Operators
- The while Loop
- Break and continue
- The for Loop

## Functions

- Introduction
- Calling a function
- Function arguments
- Built in functions
- Scope of variables
- Decorators
- Passing Functions to a Function
- Lambda
- Closures

## Modules and Packages

- Modules
- Importing module
- Standard Module - sys
- Standard Module - OS
- The dir Function

## Files and Directories

- Introduction
- Writing Data to a File
- Reading Data from a File
- Additional File Methods
- Working with files
- Working with Directories
- The pickle Module

## Iterators

- Understanding Iterators
- Using iter And next
- Iterators And Dictionaries
- Other Iterators

## Functions and Scopes

- Introduction To Functions - Why
- Defining Functions
- Calling Functions
- Functions With Multiple Arguments
- Predicate Functions, Recursive Functions
- Function Objects, Generators, Decorators
- Anonymous Functions, Higher-Order Functions
- Scope ,Global Scope, Local Scope ,Nested Scope



## File I/O

- Printing to the Screen
- Reading Keyboard Input
- Opening and Closing Files
- Open Function, file Object Attribute
- Close() Method ,Read, write, seek
- Rename, remove

## Classes Objects

- Introduction classes and objects
- Creating Classes
- Instance Methods
- Special class method
- Inheritance
- Method overriding
- Data hiding

## Regular Expressions

- Introduction
- Match function
- Search function
- Grouping
- Matching at Beginning or End
- Match Objects

## Error and Exceptional Handling

- Exception Handling, Assertions: The assert Statemen
- What is Exception, Handling an exception
- The except Clause with No Exceptions ,the try-finally Clause
- Argument of an Exception, Raising an Exception

## Logging and Debugging

- Logging — Logging facility for Python
- Logger Objects, Logging Levels
- Creating Log files
- Python debugger- pdb

## Multithreading

- Overview of Threading model
- Properties of Threads
- Creating Thread Using Threading Module
- Using queue with threads



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