



Python and Data Structures using Python

Description

Our Python Training Course will give you all the knowledge needed to work on the Python platform. This python course will enable you to develop website and register on web server to show the world your creativity. Some important topics covered in this training are Python introduction, its components and the various resources, the process of creating Modules, the method of using class, and the different predefined Modules, Lists, Dictionary, Inbuilt functions, and complete datastructure.

Expectations and Goals

- Getting a clear view on Python Programming
- Working with Functions, Module, Packages
- Writing Algorithms using Python
- Getting a knowledge of Data structure using python

Prerequisites

No prerequisite required.

Module	Topic
Module 1	Introduction to Python <ul style="list-style-type: none"> • History of Python • Using Python Interpreter • The Interpreter and its Environment • Using Python as Calculator • First Step towards Programming
Module 2	String Handling <ul style="list-style-type: none"> • Assigning Values to Variables • Multiple Assignment • Standard Data Types • Python Strings • Data Type Conversion

Module 3	Control Flow Tools <ul style="list-style-type: none"> • If/else • Elif • Iterative statement
Module 4	Function <ul style="list-style-type: none"> • Defining a Function • Calling a Function • Default Attribute Function
Module 5	Python Data Structures <ul style="list-style-type: none"> • Introduction to List • Work on Tuples • Sets • Dictionary
Module 6	Module and Packages <ul style="list-style-type: none"> • Locating Modules • Creating Modules • Creating Packages • Using Packages
Module 7	List , Set, Dictionary Comprehension <ul style="list-style-type: none"> • List Comprehension • Set Comprehension • Dictionary Comprehension
Module 8	Files I/O <ul style="list-style-type: none"> • Printing to the Screen • Reading Keyboard Input • The input Function • Opening and Closing Files • The open Function • The file Object Attributes • The close() Method • Reading and Writing Files • The write() Method • The read() Method
Module 9	Introduction to OOP <ul style="list-style-type: none"> • Introduction to OOP • Class and Objects • Class Diagram • Constructor
Module 10	Encapsulation <ul style="list-style-type: none"> • Need for Encapsulation • Private Attributes • Getting Setter Methods

WWW.ARDENTCOLLABORATIONS.COM

Head Office :

SDF Building, Module 132, Ground Floor, Salt Lake
 Sector V Kolkata: 700091

Toll-Free: 1800-313-4533

 @ardentgroup  @ardentcomputech



Scan This QR code to
 Download the ARDENT-ian App



Module 11	CGI with HTML Pages <ul style="list-style-type: none"> Using CGI Module CGI Environment Variables GET and POST Methods Passing Information using GET method Simple URL Example : Get Method Simple FORM Example: GET Method Python Passing Information Using POST Method
Module 12	Using Objects <ul style="list-style-type: none"> Reference Variable Pass by Reference Self Need for Static Static Attributes Static Methods
Module 13	Inheritance <ul style="list-style-type: none"> Need for Inheritance Overriding Super ant Types
Module 14	Abstract Class <ul style="list-style-type: none"> Need for Abstract Abstract Methods
Module 15	Exception Handling <ul style="list-style-type: none"> Introduction Raise Custom Exception
Module 16	List Data Structure <ul style="list-style-type: none"> List using Array List using Linked list
Module 17	Using of Stack & Queue <ul style="list-style-type: none"> Introduction Stack – Operations Stack – Applications Queue – Operations
Module 18	Non- Linear Data S tructure <ul style="list-style-type: none"> Graphs Trees
Module 19	Search Algorithms <ul style="list-style-type: none"> Linear Search Algorithm Binary Search Algorithm
Module 20	Sort Algorithms <ul style="list-style-type: none"> Selection Sort Algorithm Bubble Sort Algorithm Merge Sort Algorithm
Module 21	Project work and documentation

WWW.ARDENTCOLLABORATIONS.COM

Head Office :

SDF Building, Module 132, Ground Floor, Salt Lake
 Sector V Kolkata: 700091

Toll-Free: 1800-313-4533

 @ardentgroup  @ardentcomputech



Scan This QR code to
 Download the ARDENT-ian App

