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AMITY COMPUTER ACADEMY

PYTHON

Python is a high level programming language that enjoys extensive popularity among developers and programmers. Python code is not only easy to read but also looks good. Code readability is an important feature of this language. Its syntax allows concepts to be expressed in fewer lines of code.

WHAT WILL YOU LEARN IN THE COURSE?

The course features several modules designed to help in the learning process.

MODULE 1: PYTHON PROGRAMMING OVERVIEW AND BASICS

Computer Basics and Fundamentals

Algorithms & Flowcharts

History & Features of Python

Difference between Python 2.7 and 3.6

MODULE 2: VARIABLES, EXPRESSIONS AND BASIC INPUT OUTPUT

Identifiers, Keywords, Literals

Variables

Naming Convention

Operators

Follow Copy

MODULE 3: A BRIEF LOOK AT DATA TYPES

List

Tuple

Dictionary

More On Data Types

MODULE 4: CONTROL STATEMENTS

If Statement

Nested if-elif

Looping

Break

Continue

Pass

MODULE 5: SYSTEM AND USERDEFINED FUNCTIONS

Defining a Function

Calling a Function

Anonymous Functions

Global and Local Functions

MODULE 6: MODULES

Importing a Module

Math Module

Random Module

Packages

MODULE 7: FILE HANDLING

Reading and Closing Module

Reading from XML file

Creating Log file

More on File Concept

MODULE 8: OOP CONCEPT

OOP feature and brief description

Class Design

Constructor and Destructor

Use of self

Inheritance

Exception Handling Mechanism

Abstraction Mechanism

Multi-Threading

Database access with Python

GUI Application

Regular Expression