

Kids Coding

PYTHON

OOPS

PROGRAMMING

DJANGO

HTML

PYTHON



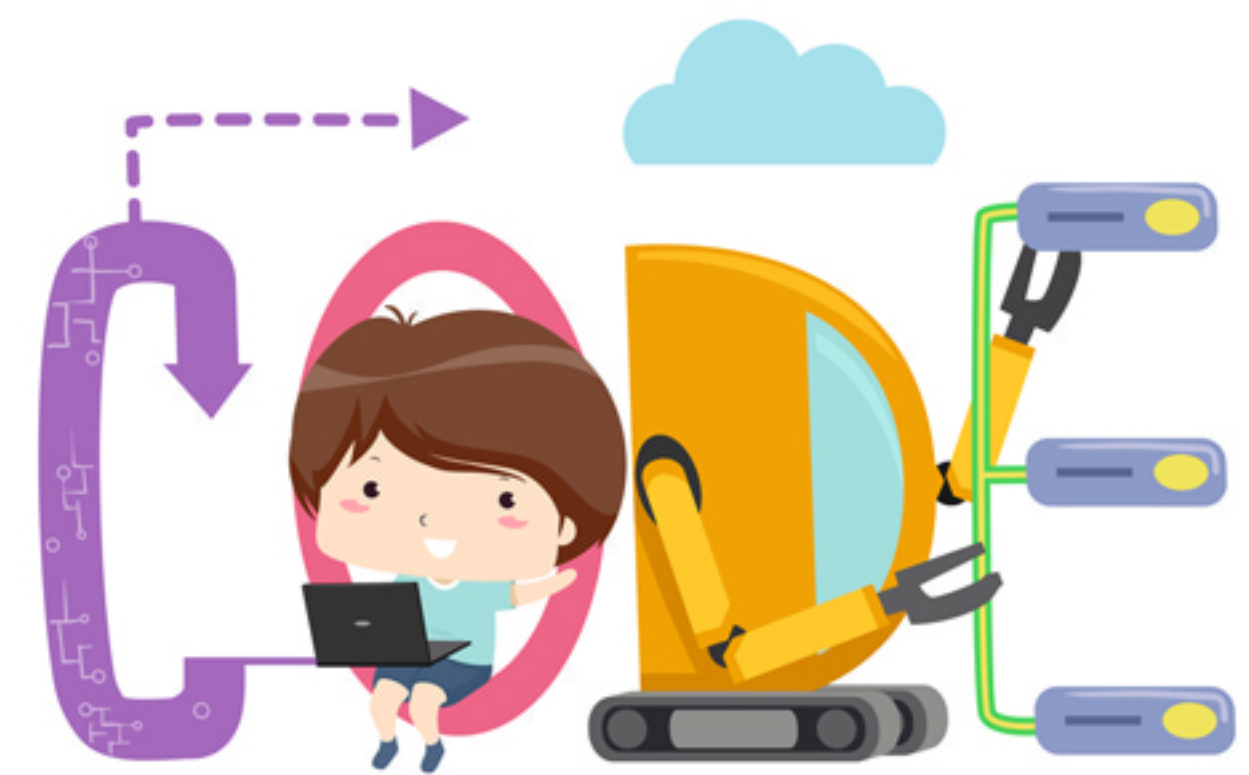
Python for kids

Course Overview

Python is a powerful, easy-to-read, high-level programming language. This means commands read like English words instead of complicated 0s and 1s and this makes it easy for kids to learn Python without a lot of experience. Python is used by Google, Disney, other big brands, and can be utilized to develop video games, numeric computing projects, and web frameworks. Python is also flexible enough for use in cyber security and AI!

Why you should register at LogicRays Academy for learning basic kids coding course in Ahmedabad?

- Online & Offline Training
- Excellent Lab Support
- Work on Live Project
- Get Expert Mentor
- Certification

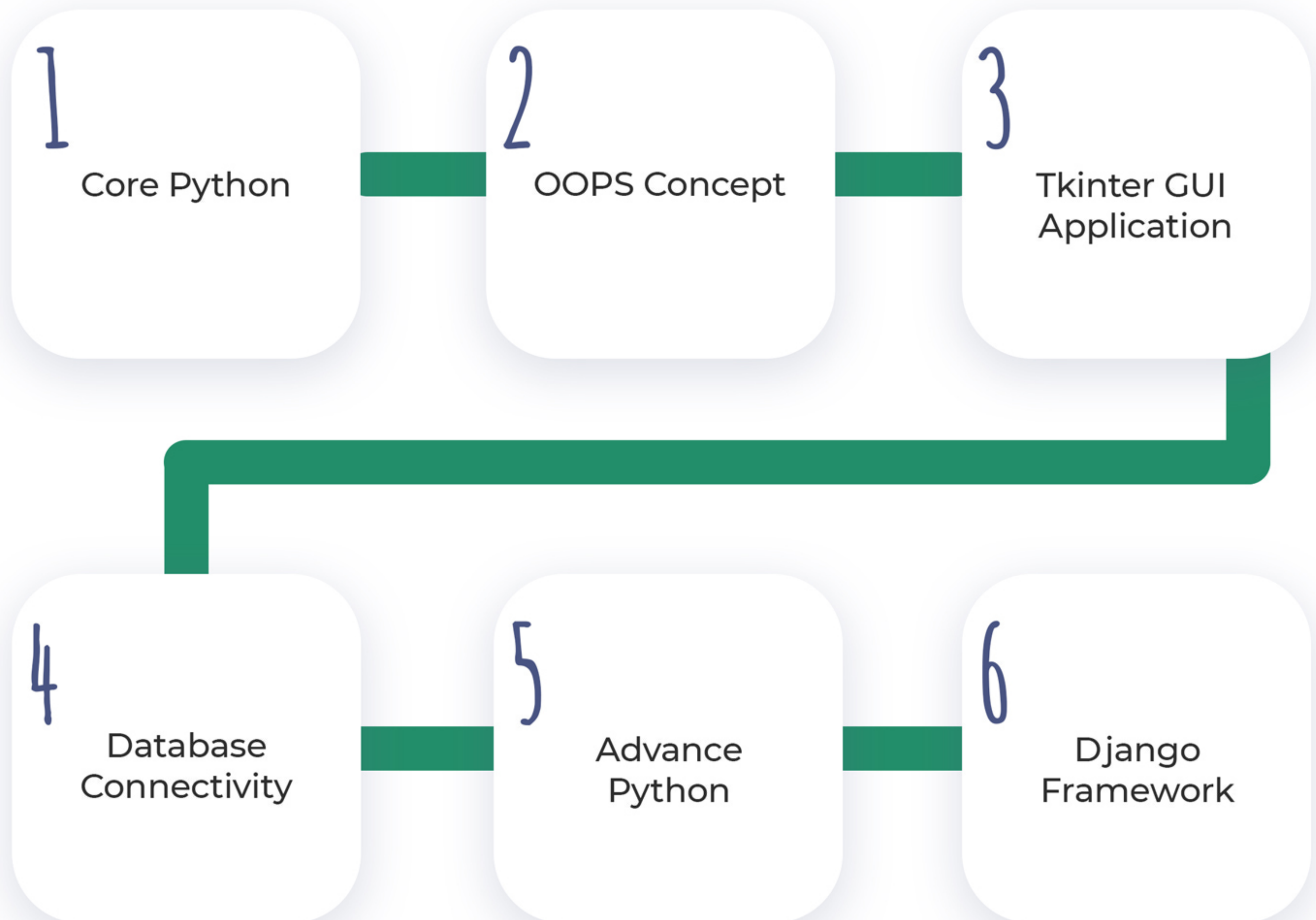


Advanced Coding For Kids

Age 14 - 18

(Online & Offline Classes)

Python for kids



Course Curriculum

Python

○ Introduction to Web Design

<> 1. Introduction to Web design

- Introduction to HTML4 & HTML5
- Introduction to CSS & CSS3
- Introduction to javascript
- Introduction to jquery
- Introduction to Bootstrap

<> 2. Introduction to Python

- Overview
- Introductory Remarks about Python
- A Brief History of Python
- How python is differ from other languages
- Python Versions
- Installing Python and Environment Setup

<> 3. variables,keywords,data types and operators

- Variables
- Memory mapping of variables
- Keywords in Python
- Comments in python
- Operators
- Basics I/O and Type casting
- Getting user input
- All datatype in python

<> 4. Numbers and Strings

- Introduction to Python 'Number' & 'string' data types
- Properties of a string
- String built-in functions

- Programming with strings
- String formatting

<> 5. List and Tuples,Dictionary and sets

- Introduction to Python 'list' data type
- Properties of a list
- List built-in functions
- Programming with lists
- List comprehension
- Introduction to Python 'tuple' data type
- Tuples as Read only lists
- Introduction to Python ' dictionary' data type
- Creating a dictionary
- Dictionary built-in functions

<> 6. Decision making & Loops

- Introduction of Decision Making
- Control Flow and Syntax
- The if Statement
- The if..else Statement
- The if...elif...else Statement
- Nested if...else Statement
- The while Loop
- break and continue Statement
- The for Loop
- Pass statement

<> 7. User Defined Functions,Modules, Packages

- Introduction of functions
- Function definition and return
- Function call and reuse
- Function parameters
- Built in functions
- Modules
- Importing module
- Packages

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<> 8. Exception Handling in python

- Understanding exception
- Run Time Errors
- Handling I/O Exceptions
- try, except, else and finally statement
- raising exceptions with: raise, assert

<> File Handling in python

- Working with files
- File objects and Modes of file operations
- Reading, writing and use of 'with' keyword
- read(), readline(), readlines(), seek(), tell() methods

<> 10. Regular expression

- Pattern matching
- Meta characters for making patterns
- re flags
- Use of match() , sub() , findall(), search(), split() methods

<> 11. Object Oriented programming with python

- OOPs concepts: Classes and objects
- Making of a class and module namespace
- Deep understanding of self and init ()
- Inheritance and Overriding
- Overloading functions
- Operator overloading
- Encapsulation: Hiding attributes

<> 12. Database connectivity with python

- Working with MySQL database
- Working with Sqlite3 database

<> 13. Tkinter GUI Application

- Introduction to Tkinter module
- Using root window
- Creating frames
- Using Labels and Buttons
- Using Text and Entry widgets
- KM to M converter application
- Project: Calculator, Notepad etc.
- How to create setup file of project.

<> 14. Introduction to django framework

- What is Django?
- Django and Python
- Django's take on MVC: Model, View and Template
- DRY programming: Don't Repeat Yourself
- How to get and install Django

<> 15. Getting started with django

- About the 3 Core Files:
- models.py
- urls.py
- views.py
- Setting up database connection
- Managing Users & the Django admin tool
- Installing and using 'out of the box' Django features

<> 16. Django URL patterns and View

- Designing a good URL scheme
- Generic Views

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<> 17. Django Forms

- Form classes
- Validation
- Authentication
- Advanced Forms processing techniques

Python for kids

COURSE TAKE AWAY

- > Learn Design
- > Learn Coding
- > Code your Apps
- > Live Project using Django



django



Make your child
future BRIGHT, Today



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