

Kids Coding

C/C++

WEB DESIGN

CSS3

PYTHON

HTML

BASIC CODING



Basic Coding For Kids

Course Overview

Coding is a basic literacy in the digital age, and it is important for kids to understand and be able to work with and understand the technology around them. Having children learn coding at a young age prepares them for the future. Coding helps children with communication, creativity, math, writing, and confidence.

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

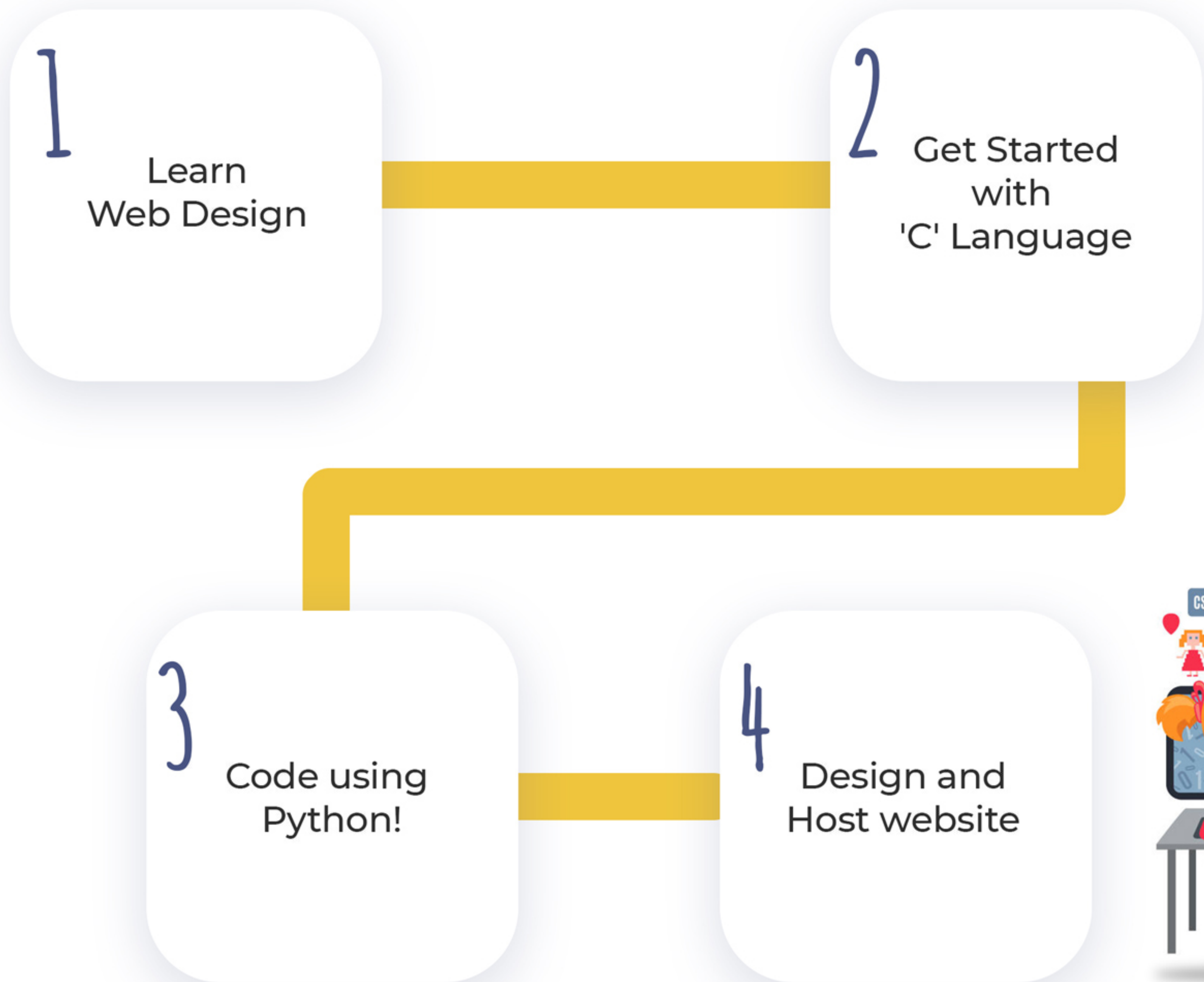
- Online & Offline Training
- Excellent Lab Support
- Work on Live Project
- Get Expert Mentor
- Certification



Basic Coding For Kids

Age 11 - 13

(Online & Offline Classes)



Course Curriculum

1. Web Designing

○ Introduction to Web Design

<> 1. Introduction to world wide web

- What is HTML?
- What is Markup Language?
- HTML Page Structure
- Use of Web Browsers
- HTML Editors

<> 2. HTML Basic

- What is Element? and Types of Element
- Block Elements and Inline Elements
- What are Attributes? and how to use it?
- Paragraphs and Formatting
- Headings
- HTML Comments
- HTML Symbols / Entities

<> 3. HTML Links

- Relative URL
- Image as a link
- Create a Bookmark
- Absolute URL
- Attributes : href , title , target , id , download

<> 4. HTML Images

- Optimizing JPEG,PNG and GIF Images
- Embedding Images in a WebPage
- Image as a link
- Image Maps
- Attributes : src , title , alt , height , width, shape , coords

<> 5. HTML Lists

- Unordered List
- Ordered List
- Description List
- Nested List
- Attributes : type

<> 6. HTML Tables

- Unordered List
- Creating Tables
- Formatting Tables
- Table Headers and Captions
- Attributes : rowspan , colspan , border , bgcolor

<> 7. HTML Form and Input

- Creating Forms (Form Element)
- Form Methods - Get,Post
- Single Line Input- Textbox, Password, Hiddenbox
- Multiple Line Input - Textarea
- Single Selection - Radio Button, Select
- Multiple Selection - Checkbox, Select with multiple attribute
- File Upload - File
- Buttons - Submit,Reset,Button
- Attributes : method , action , type , name , value , maxlength , size , checked , tabindex , readonly , rows , cols

<> 8. HTML Iframe and Fieldset

- Creating Iframe
- Iframe - Target for a Link
- Creating Fieldset

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<> 9. HTML5

- Introduction of HTML5
- Difference between HTML4 and HTML5
- HTML5 New Semantic (Structural) Elements
 - header
 - nav
 - section
 - article
 - aside
 - footer
 - details
 - header
 - summary
 - figure
 - figcaption
 - mark
 - progress
 - meter
- HTML5 New Form Elements
 - datalist
 - output
- HTML5 New Input Types
 - color
 - date
 - datetime
 - datetime-local
 - email
 - month
 - number
 - range
 - search
 - tel
 - time
 - url
 - week
- HTML5 New Input Attributes
 - autocomplete
 - autofocus
 - form
 - formaction
 - formenctype
 - formmethod
 - formnovalidate
 - formtarget
 - list
 - min and max
 - pattern
 - placeholder
 - required
 - step
- HTML5 New Graphic Elements
 - canvas
 - svg
- HTML5 New Media Elements
 - audio
 - video
 - source
 - embed

○ Introduction to css and css3

<> 1. Introduction of CSS

- What is CSS?
- Why use CSS?
- CSS and Markup Languages

<> 2. CSS Basic

- CSS Syntax
- Types of CSS
 - Inline CSS
 - Internal CSS
 - External CSS
- CSS Selectors
 - Simple selectors
 - Combinator selectors
 - Pseudo-class selectors
 - Pseudo-elements selectors
 - Attribute selectors
- CSS Comments
- StyleSheet Strategies

<> 3. Color and Background Properties

- Set Text and ForegroundColor
- Set BackgroundColor
- Set BackgroundImage
- Set background-position

<> 4. CSS Text Properties

- Set Text and ForegroundColor
- Set BackgroundColor
- Set BackgroundImage
- Set background-position

<> 5. CSS Font Properties

- Set size of Fonts
- Apply style to Fonts like bold, italic

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- Creating SmallCaps
- Change Fonts using Font Family

<> 6. HTML Div and Span Element

- Create Div
- Arrange Div in specific place
- Create Web Page layout

<> 7. CSS Box Properties

- Margin
- Padding
- Content
- Border

<> 8. CSS Float Properties

- Left
- Right
- None

<> 9. CSS Border Properties

- width
- color
- style

<> 10. CSS Position Properties

- Static
- Relative
- Fixed
- Absolute
- Z-index

<> 11. CSS List Properties

- list-style
- list-style-image
- list-style-position
- list-style-type

<> 12. Introduction to CSS3

- What is CSS3?
- Difference between CSS and CSS3

<> 13. CSS3 Backgrounds

- background-size
- background-origin
- background-clip
- Multiple Background Images

<> 14. CSS3 Gradients

- Linear Gradient
- Radial Gradient

<> 15. CSS3 Shadow

- text-shadow
- box-shadow

2. C Programming

○ C Programming - Basic Programming Language

<> 1. C Introduction

- What is C language ?
- History of C
- Features of C
- How to install C
- First C Program
- Compilation Process in C

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<> 2. C – Basics

- Printf scanf
- Variables and Constant in C
- Datatypes in C
- Keywords in C
- Identifiers in C
- Operators in C
- Comments in C

<> 3. C Control Statements

- if..else
- Switch case
- for loop
- While loop
- Do..while loop
- Break and continue
- Go to statement

<> 4. C Functions

- User – defined functions
- Function types
- Recursion Functions

<> 5. C Arrays

- Array declaration
- Array initialization
- Multi-dimensional Array

<> 6. C Strings

- String Introduction
- String functions

3. Python

<> 1. Introduction to Python

- Why Python where to use it?
- Features of Python
- Domains where Python is used
- Python environment Setup
- Discuss about IDE's like IDLE, Pycharm
- How to work in an interactive shell.
- Identifiers, Keywords in Python
- Operators in Python
- Standard Project Set up

<> 2. Control Statements

- Variables and Data Types
- Debugging Python Programs using debugger in Pycharm/pdb
- Taking User Input
- Decision or Conditional Statements
- Repeating or Looping Statements and Nested Statements
- break, continue and pass statements

<> 3. Collection in Python

- Collection in Python
- Tuples its accessing and functions
- Strings accessing and its methods
- Set with only unique data and manipulation
- Dictionary and its functionalities

<> 4. User-defined functions

- The anonymous Functions - Lambda Functions
- How to create a Python function
- Return type functions

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- Function with Parameters/Arguments
- Keyword/Named Arguments
- Default Arguments
- Variable -length arguments
- Anonymous/Lambda functions

<> 5. Object Oriented Concepts

- What is a class, Structure of a class,
- Creating Object and Accessing the behavior ,attributes

- Constructors in Python
- Inheritance and its types
- Polymorphism-Overriding
- Abstraction Implementation Hiding
- Encapsulation data hiding

4. Design and Host Website



Make your Child
future BRIGHT, Today



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