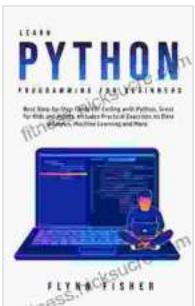


Learn Python Programming For Beginners: A Comprehensive Guide

Python is a high-level, interpreted, general-purpose programming language that is easy to learn and use. It is widely used in a variety of domains, including web development, data science, machine learning, and artificial intelligence.



Learn Python Programming for Beginners: The Best Step-by-Step Guide for Coding with Python, Great for Kids and Adults. Includes Practical Exercises on Data Analysis, Machine Learning and More. by Glade B. Curtis

4.6 out of 5

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Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 74 pages

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If you are a beginner who wants to learn Python programming, this guide will provide you with everything you need to get started. We will cover the basics of Python, including installation, variables, data types, operators, control flow, functions, modules, classes, and object-oriented programming.

Along the way, we will provide hands-on examples and exercises to help you practice what you have learned. We will also provide links to additional resources that you can use to learn more about Python.

Installation

To get started with Python, you will need to install it on your computer. You can download the latest version of Python from the official Python website.

Once you have downloaded the Python installer, run it and follow the on-screen instructions. Once the installation is complete, you will be able to open a Python shell and start coding.

Variables

Variables are used to store data in Python. You can create a variable by assigning a value to it.

```
python # Create a variable called 'name' and assign it the value 'John'  
name ='John'
```

You can access the value of a variable by using its name.

```
python # Print the value of the 'name' variable print(name)
```

Data Types

Data types define the type of data that a variable can store. Python has several built-in data types, including:

- **Integers:** Whole numbers, such as 1, 2, and 3
- **Floats:** Decimal numbers, such as 1.23, 4.56, and 7.89
- **Strings:** Sequences of characters, such as "Hello", "World", and "Python"

- **Lists:** Collections of items in a specific order, such as [1, 2, 3], ["Hello", "World", "Python"], and [1.23, 4.56, 7.89]
- **Tuples:** Collections of items in a specific order that cannot be changed, such as (1, 2, 3), ("Hello", "World", "Python"), and (1.23, 4.56, 7.89)
- **Dictionaries:** Collections of key-value pairs, such as {"name": "John", "age": 30, "city": "New York"}

You can check the data type of a variable using the `type()` function.

```
python # Check the data type of the 'name' variable print(type(name))
```

Operators

Operators are used to perform operations on variables and values. Python has a variety of operators, including:

- **Arithmetic operators:** +, -, *, /, and %
- **Comparison operators:** ==, !=, , =
- **Logical operators:** and, or, and not

You can use operators to perform a variety of tasks, such as adding two numbers, comparing two values, or checking if a condition is true.

```
python # Add two numbers print(1 + 2)
```

```
# Compare two values print(1 == 2)
```

```
# Check if a condition is true print(1 Control Flow
```

Control flow statements are used to control the flow of execution of a Python program. The most common control flow statements are:

- **if statements:** Used to execute a block of code only if a certain condition is met
- **else statements:** Used to execute a block of code if a certain condition is not met
- **elif statements:** Used to execute a block of code if a certain condition is met, but another condition is not met
- **for loops:** Used to iterate over a sequence of items
- **while loops:** Used to execute a block of code while a certain condition is met

You can use control flow statements to create a variety of programs that can respond to different conditions and perform different tasks.

```
# If statement if 1 Functions <p>Functions are used to group code together
```

```
python # Create a function called 'greet' def greet(name): print(f"Hello, {name}!")
```

```
# Call the 'greet' function greet("John")
```

Functions can take arguments and return values. The arguments are passed to the function when it is called, and the return value is the value that is returned by the function.

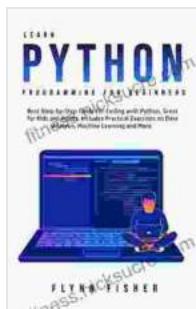
```
python # Create a function called 'sum' that takes two arguments def sum(a, b): return a + b
```

```
# Call the 'sum' function result = sum(1, 2)
```

```
# Print the result print(result)
```

Modules

Modules are used to organize Python code into reusable



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