

# Python Programming For Beginner: A Comprehensive Guide



## Basic Python Language For Arduino: Python Programming For Beginner by Vijay Verma

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Python is a powerful, versatile programming language that is popular for a wide range of applications, from data science to web development. It is known for its simplicity, readability, and extensive library support.

This guide is designed to provide a comprehensive overview of Python programming for beginners. We will cover all the basics, from data types to object-oriented programming, so that you can get started with Python programming.

## **Data Types**

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

- Integers (int): Whole numbers, such as 1, 2, and 3.
- Floats (float): Decimal numbers, such as 1.23, 4.56, and 7.89.
- Strings (str): Sequences of characters, such as "hello", "world", and "Python".
- Lists (list): Collections of items in a specific Free Download, such as [1, 2, 3], ["a", "b", "c"], and [1, "a", 3.14].
- Tuples (tuple): Collections of items in a specific Free Download that cannot be changed, such as (1, 2, 3), ("a", "b", "c"), and (1, "a", 3.14).
- Dictionaries (dict): Collections of key-value pairs, such as {"name": "John", "age": 30, "city": "New York"}, {"color": "red", "shape": "square", "size": "large"}.

## **Variables**

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

```
# Declare a variable named "name" and assign it the value "John" name =
```

You can use the type() function to check the data type of a variable.

```
# Check the data type of the variable "name" print(type(name)) # Check t
```

Output:



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