

## Python Basics

### 1. Variables

A variable is a name that refers to a value. In Python, variables are created by assignment statements.

Example:

```
x = 10
```

```
y = 20
```

### 2. Lists

A list is a collection of values. Lists are created by placing values inside square brackets.

Example:

```
numbers = [1, 2, 3, 4, 5]
```

### 3. Functions

A function is a block of code that performs a specific task. Functions are defined using the `def` keyword.

Example:

```
def add(a, b):  
    return a + b
```

### 4. Classes

A class is a blueprint for creating objects. Classes are defined using the `class` keyword.

Example:

```
class Dog:  
    def __init__(self, name):  
        self.name = name  
    def bark(self):  
        return "Woof!"
```