

# Python Function Arguments

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# Function Arguments

- An argument is the **value that are sent to the function** when it is called.

```
def greet(name, msg):  
    print("Hello", name + ', ' + msg)  
  
greet("Anoop", "Good morning")
```

## Output

```
Hello Anoop, Good morning
```

# Function Arguments

- An argument is the **value that are sent to the function** when it is called.
- Four types of arguments:-
  - Positional Arguments
  - Default Arguments
  - Keyword Arguments
  - Arbitrary Arguments

# Positional Arguments

- Positional arguments are the arguments passed to a function **in correct positional order**.
- Also called as **required arguments**.
- Here, the **number of arguments in the function call should match exactly with the function definition**.

```
def greet(name, msg):  
    print("Hello", name + ', ' + msg)  
  
greet("Anoop", "Good morning")
```

## Output

```
Hello Anoop, Good morning
```

# Default Arguments

- A default argument is an argument **that assumes a default value if a value is not provided in the function call** for that argument.

```
def greet(name, msg = 'Good morning'):  
    print("Hello", name + ', ' + msg)  
  
greet("Anoop")  
greet("Amal", "How do you do?")
```

## Output

```
Hello Anoop, Good morning  
Hello Amal, How do you do?
```

# Keyword Arguments

- Python allows functions to be called using keyword arguments.
- In this way, the **order (position) of the arguments can be changed**.

```
def greet(name, msg):  
    print("Hello", name + ', ' + msg)  
  
greet(msg = "Good morning", name = "Anoop")
```

## Output

```
Hello Anoop, Good morning
```

# Arbitrary Arguments

- Argument numbers are **unknown**.
- Precede the parameter with an **asterisk (\*)**.

```
def greet(*names):  
    # names is a tuple with arguments  
    for name in names:  
        print("Hello", name)  
  
greet("Anoop", "Amal", "Anjali", "Akhil")
```

## Output

```
Hello Anoop  
Hello Amal  
Hello Anjali  
Hello Akhil
```