

Example 1: Using *args* (for arbitrary number of positional arguments)

```
python
def concatenate_strings(*args):
    result = ""
    for arg in args:
        result += arg
    return result

print(concatenate_strings("Hello", " ", "World")) # Output: Hello World
print(concatenate_strings("I", " ", "am", " ", "Python")) # Output: I am Python
```

Example 2: Using **kwargs* (for arbitrary number of keyword arguments)

```
python
def print_person_info(**kwargs):
    for key, value in kwargs.items():
        print(f"{key}: {value}")

print_person_info(name="John", age=30, city="New York")
# Output:
# name: John
# age: 30
# city: New York

print_person_info(name="Alice", profession="Engineer", country="Canada")
# Output:
# name: Alice
# profession: Engineer
# country: Canada
```

Example 3: Using both *args* and **kwargs*

```
python
def print_info(*args, **kwargs):
    for arg in args:
        print(arg)
    for key, value in kwargs.items():
        print(f"{key}: {value}")

print_info("Hello", "World", name="John", age=30)
# Output:
# Hello
# World
# name: John
# age: 30
```