Lambda Functions

A **lambda function** in Python is a **small, anonymous function** that can take any number of arguments but can only have **one expression**. It is primarily used to **reduce code length** and improve **functionality** in cases where simple operations are required.

Syntax of Lambda Function

lambda arguments: expression

- The arguments are the values passed to the function.
- The expression is evaluated and returned.

Example

```
double = lambda x, y: x * y / x + 1
print(double(1, 2)) # Output: 3.0
```

Why Use Lambda Functions?

- ✓ Concise Reduces the need for defining regular functions.
- ✓ Anonymous Can be used without a function name.
- ✓ Quick Execution Useful in functional programming.