1. Define function in python.

In Python, functions are defined using the def keyword. They are blocks of reusable code that perform specific tasks.

1. Different types of functions

* **Functions Without Parameters and Without Return Values:**

These functions don't take any input and don't return any output. They are often used to perform specific tasks or print messages.

* **Functions With Parameters and Without Return Values:**

These functions take input parameters but don't return any output. They can perform operations based on the input values.

* **Functions Without Parameters and With Return Values:**

These functions don't take any input but return a value. They can be used to calculate values or generate results.

* **Functions With Parameters and With Return Values:**

These functions take input parameters and return a value. They are the most versatile type of functions, allowing for complex calculations and data processing.

1. Anonymous functions (lambda functions).

**Lambda functions** are small, anonymous functions defined in a single line using the lambda keyword. They're often used for short, simple tasks where defining a full function using the def keyword would be overkill.