## Async IO

- Async IO is a concurrent programming design or paradigm like threading or multiprocessing. It's language-agnostic.
- asyncio is the Python Standard Library that provides support for implementing Async IO using the async/await syntax.
- It's a perfect fit to write concurrent code for IO-bound and high-level structured network code.
- Coroutines (short for cooperative subroutines) are similar to generators.
- A coroutine is a function that can suspend its execution before reaching return, and it can
  indirectly pass control to another coroutine for some time. A coroutine is just a function
  defined using the async keyword.
- We say that an object is an awaitable object if it can be used in an await expression.
- There are 3 awaitable objects: coroutine, task, and future.