***“Rust Asynchronous Programming”***

**Background:**

Recently Rust Language adopted Asynchronous Programming and announced it in stable version. Asynchronous Programming is different from Normal programming. In normal programming only one task is done at a time which is easy for computer but in this way the system is under-utilized. So why one task is done at a time why not multiple tasks to be done at a time. Just like if we purchased a server so we need to utilize it well. That’s why we need to shift to concurrent programming so many tasks at a time can be done in an application.

**Introduction:**

Asynchronous programming is a concept which allows not blocking the program workflow when waiting for the results of certain actions. Here we’re talking about running code concurrently, or having multiple overlapping (in time) computations run on a single thread.

***Or***

Asynchronous Rust allows us to run multiple tasks concurrently on the same OS thread. Whatever the nature of your application a web server, a database or an operating system, using asynchronous programming you can get most out of the underlying hardware.