Synchronization:

Means a sync between selenium script execution speed web application speed

Selenium does not provide any default synchronization.

Selenium provides synchronization with the help of

1. Implicitly Wait and
2. Explicitly wait

pageLoadTimeout

used to provide wait to load page.

driver.manage().timeouts().pageLoadTimeout(20, TimeUnit.***SECONDS***);

wait at least 20 seconds to load page and then perform some action

Note: All waits in selenium are dynamic waits, dynamic wait means if the page is loaded in 2 seconds then rest of 18 seconds will be ignored.

Implicitly Wait:

Implicitly wait is global wait . It will available for all web elements in which driver is interacting.