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Test automation software is the most effective, efficient, and comprehensive solution to improve software testing effectiveness, efficiency, and coverage. Once automated tests are built, they may be readily replicated and extended to perform things that would be hard to accomplish manually. While the initial setup of automated testing cases takes a lot of time and work, you may reuse these tests once they've been automated. Automated tests are substantially faster than manual testing, have less errors, and require less effort.

When we wish to execute the same test cases on numerous machines at the same time, we'll need automated testing. Automation is an option if :

* The application covers a large region and requires a significant amount of investment effort in regression.
* Cost reductions were achieved as a result of human mistake.
* There are several versions and releases of the program.
* In the long term, it is cost-effective.
* For a greater scope of test execution, the risk factor is bigger.
* The software's functionality includes cost estimates and mathematical calculations.
* The speed and efficiency of execution, as well as the quality of the program, have increased.
* Even for high-risk software testing, the turnaround time is reduced.