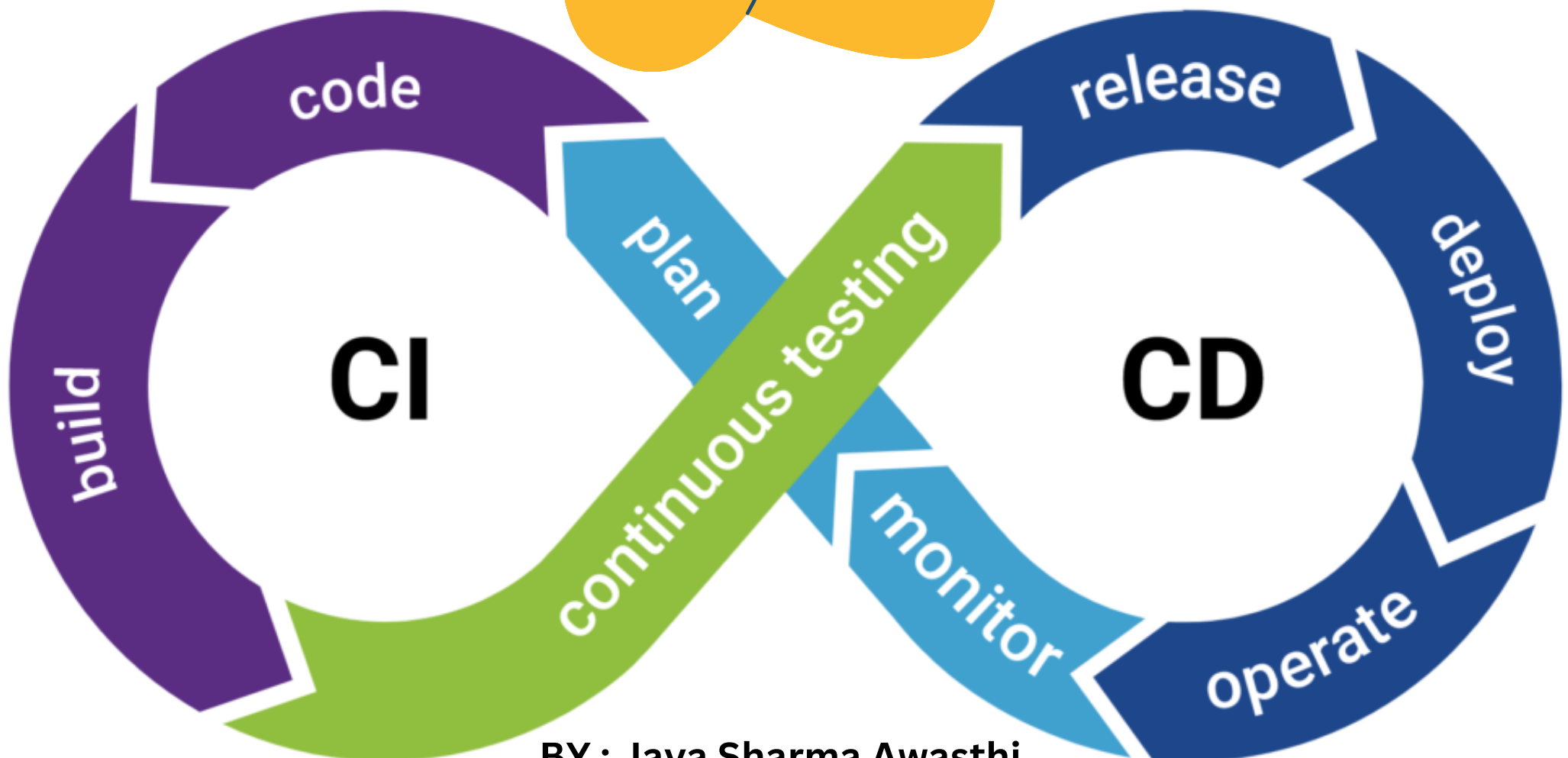


# What is a CI/CD Pipeline?



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**A CI/CD pipeline is a set of automated processes that are used to build, test, and deploy software changes. It typically includes several stages, such as:**

- Source control management**
- Build**
- Test**
- Deployment**
- Monitoring**



- **Source control management:** Code changes are committed to a source control repository, such as Git.
- **Build:** The code is built, typically using a build tool such as Jenkins or TravisCI.
- **Test:** Automated tests are run to check that the code changes are functioning as expected.



- **Deployment:** The code is deployed to various environments, such as development, staging, and production.
- **Monitoring:** The deployed code is monitored to detect any issues or errors.



- **The pipeline is typically triggered by a code commit or push to the source control repository, and each stage of the pipeline is executed automatically.**
- **The pipeline provides an efficient and automated way to handle code changes, from development to production and allows teams to catch and fix errors as early as possible, as well as to release new features and bug fixes to customers more quickly and efficiently.**

