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**Aim:** Contribute to open source in different Applications and services.

# Theory:

As we continue to advance technologically, more and more products and services are being transformed into software ready services. And many of them are being made open-source.

Most developers and companies depend on open-source tools and software to make their products work. The number of contributions to open-source have really grown lately – not just for solo developers but from companies also.

open-source code works as once it's been made public, and you need to add a feature or make changes, the owner has to approve the added changes and publish them for others to see.

## There are plenty of reasons why you should contribute to an open-source project, such as:-

1. To improve the software, you rely on daily.
2. To find a mentor if you need one.
3. To learn new skills or improve on existing ones.
4. To share your skills.
5. To gain a much deeper knowledge about the software you're using.
6. To build up your reputation and help grow your career.

## Benefits of Contributing to Open Source:-

1. People that contribute to an open-source project get to know the technology at a much deeper level than they would by simply using the technology.
2. You can focus your efforts on adding and leveraging features that will benefit businesses based on experience with what works and doesn't work in the real world.
3. It builds your morale and reputation. People who contribute to open-source projects have access to other community members' insights and experience.
4. Contributing to open source provides a clear view into the future of a project.

## Why You Should Contribute to Open Source as a Developer:-

1. It will help sharpen your skills of coding and improvement into writing clean code.
2. It helps the community and your peers get to know you. This recognition can bring you a lot of opportunities in your career.
3. It helps you learn more about project management, and it could leave you inspired to start your own project.

* Roles in a typical OS Project:-

1. **Author** - This is the person who created the project. They have the power to assign new roles to other members to help with the project's maintenance.
2. **Owner** - The owner has administrative ownership of the project (and can be the same person as the author)
3. **Maintainers** - These people are responsible for driving the vision and goals of the project. They're usually people who feel responsible for the direction of the project and who are committed to improving it.
4. **Contributors** - Contributors add to the project in one way or another. They follow the same code review process, are subject to the same requirements on code style, and so on.
5. **Community Members/Users** - These valuable members of the community can provide feedback about features, bug reports, and more.

# Conclusion :

Hence, I have studied the contribution of open source in different Applications and services.