MicroServices Assignment-1

1. What is Microservices?

->It is an Architectural style that structures an application as a collection of services that are. Highly maintainable and testable. Loosely coupled. Independently deployable. Organized around business capabilities.

1. Challenges with Monolithic Architecture.

-> Monolithic approach has a limitation in size and complexity.

->Application is too large and complex to fully understand and make changes fast and correctly.

-> The size of the application can slow down the start-up time.

->You must redeploy the entire application on each update.

-> Development and deployment takes too much time.

1. Adv. and Dis.adv of Microservices.

=> Dis.Adv:-

1. Risk of Slow Performance.
2. There is a higher chance of failure during communication between different services.
3. Difficult to manage a large number of services.
4. The developer needs to solve the problem, such as network latency and load balancing.

=>Advantage:-

1. Microservices are more scalable.
2. Microservices reduces downtime through fault isolation.
3. Smaller codebase can help team to understand the code more easily.
4. Microservices are deploy independently and allow more team autonomy.