**Assignment – 1**

1. **What is Microservices?**

* Microservices follow the principles of service-oriented architecture (SOA) design.
* Microservices is an architectural style that divides whole applications into small services and each service working independently.
* It is composed of loosely coupled elements.

1. **Challenges with monolithic oriented architecture.**

* Difficult to scale
* Long build / Test / Release cycle
* Long time to add new features
* Architecture is hard to maintain and evolve
* Operations are nightmare
* New Releases take weeks or months

1. **Any three advantage and disadvantage of microservices**

**Advantages: -**

1. Ease of understanding
2. Smaller and faster deployments
3. Scalability

**Disadvantages: -**

1. Communication between services is complex
2. More services equal more resources
3. Debugging problems can be harder