***Microservice:***

Microservice is an architecture or we can say that it is an architectural style that is used to develop any application or software. Microservice architecture came into existence in the year 2012.

Before microservice architecture monolithic architectures were used, Now the question is, Why we switched from monolithic to microservice architecture? Microserivce architecture provides us some advantage that are needed the most now a days however monolithic architecture was very useful but it do not provide some opportunities to the people to make their applications or software the best. Some of the powerful advantage of microservice architecture are Agility, Innovation, Scalability, Availability etc.

Some of the basic difference between the Microservice and Monolithic architecture are describe below, Microservice architecture is highly cohesive and loosely coupled While this property was not found in Monolithic architecture. Microservice architecture has shorter release cycle( To release application after development) then monolithic While in Monolithic architecture release cycle is at least of 6 months or it could be more then that, may be 1 to 2 years.

After Cambrian Exposure (Wifi came into existence in handheld devices like Smartphones, wearables etc) it was very difficult for developers to work with Monolithic architectures because rapid development was needed the most in the applications to facilitate their users and let them enjoy new features of applications but updating any application by Monolithic architecture was not so easy it take a lot of time and companies does not have this much enough time to give to their developers.

In Microservice architecture Polyglotic programming is applicable in/by which code could be written into different languages to capture additional functionalities while it was not applicable in Monolithic architecture.

Scaling is another advantage of Microservice architecture. Scaling is of two types Horizontal scaling and Vertical Scaling. Horizontal scaling adds instance as per need. Vertical scaling adds more power to an existing machine. In Monolithic architecture there was no concept of scaling.

According to me Agility is one of the most useful advantage in Microservices architecture because in Agile process you can make a software according to your users wish then you can deploy it. Feedback is given by the user after its use then the developer can make changes according to the users wish. While in Monolithic architecture the developer have to complete the development then they could get the feedback from their users and at that time developers were not able to change the functionalities according to their users wish.

Some of the advantages of the Microservice architecture that I like the most are polyglotting/Polyglottic programming by this we can enjoy most of the functionalities, Another advantage is Horizontal scaling just in seconds, Its Release cycle, Microservices are autonomous, and Modularization etc .

On the other hand Microservice architecture have some disadvantages as well. Which include The complexities of distributed system, Another drawback of microservice is its management (i.e,) its difficult to manage many services at the same time. Its testing is very complex over a distributed environment.

In the end I want to conclude by saying that Microsservice architectures have the most functionalities. These functionalities helps us in development and updating a sotware or any application.