Question 3(i) Understand what Kubernetes doesn't do from here (https://kubernetes.io/docs/concepts/overview/) and explain in your own words.

Answer-

Kubernetes is a versatile container orchestration platform that offers flexibility and extensibility to cater to a wide range of application needs. It does not impose restrictions on the types of applications it can manage, accommodating both simple and complex ones, provided they run in containers. Kubernetes focuses on application orchestration rather than involving itself in source code deployment or building processes, allowing developers to manage these aspects separately.

The platform does not come bundled with built-in special services like messaging systems or databases; instead, it supports running such services alongside Kubernetes, providing a modular and customizable approach. Users have the freedom to choose their preferred logging, monitoring, and alerting tools, as Kubernetes does not mandate specific solutions Configuration styles are also adaptable, allowing users to employ different approaches based on their preferences. While Kubernetes assists in managing applications, it stops short of complete control over machine management, requiring users to handle certain aspects of machine configuration and maintenance independently.

Question 3(ii) What other Orchestration tools are available other than Kubernetes? Answer-

- 1. Docker Swarm
- 2. Microsoft Azure Container Instances
- 3. Google Kubernetes Engine
- 4. Amazon ECS
- 5. Apache Mesos