**Day 3:**

**Q.Create a document for your understanding on SAAS, PAAS, IAAS. Provide examples for each available in market.**

**SAAS** (Software as a Service): you can use the standard apps.

* cloud providers host and manage the software application on a pay-as-you-go pricing model.
* All software and hardware are provided and managed by vendors, so you don't have to maintain anything.
* Managed by Vendors: applications, runtime, o/s, middleware, data, virtualization, servers, storage, networking.

Example:DropBox.

**PAAS** (Platform as a Service): you can build your own apps.

* It provides cloud platforms and runtime environments for developing, testing and managing applications.
* It allows software developers to deploy application without requiring all the related infrastructure.
* Managed by vendors: runtime,o/s, middleware, virtualization, servers, storage, networking.
* Managed by us: applications, data.

Example: Force.com

**IAAS** (Infrastructure as a service): fully self-service.

* Our business needs a virtual machine.
* It provides basic computing infrastructure.
* Services are available on pay-for-what-you-use model.
* Managed by vendors: Virtualization, servers, storage, networking.
* Managed by us: Applications, data, runtime, middleware, o/s.

Example: AWS.

**Q. Explain below items and also how it is related to Salesforce**

**Multitenancy:**

* Multitenancy in the cloud means using shared services and resources for multiple clients.
* Multi-tenant systems place the data from multiple companies (org in Salesforce) on the same server, generally separating them from each other via a simple partition that prevents the data from migrating from one company to another.

**Metadata:**

* It allows developers to only focus on building applications.
* All the data stores various levels.
* Clients sharing single database will have access to their own metadata from share data, this increases security of share database.
* This metadata driven platform makes customization and scaling up easy.