**ASSIGNMENT-8.3**

1.Architecture of Apache Hadoop Yarn

>YARN can be classified into following major parts

**a)Resource manager**- it manages resource utilization and helps in coordinating scheduler and application manager

\*It accepts the request from client and also informs the client about the job

\*Scheduler allocates the resources to the job based on the job request from the resource manager

\*Scheduler coordinates with application manager to keep track of job performance and resource utilization.

**b)Application manager**:It keeps track of on running application and it also helps in accepting the job submission

\*This also initiates the first container(application master) to perform the job

**c)Node manager:**

* This daemon process on the slave node
* It helps in
  + Managing and executing containers
  + Monitoring resource usage (i.e. usage of memory) and reporting it back to ResourceManager daemon
  + Periodically sending heart-beats to ResourceManager for status update

**d)ApplicationMaster**

* This daemon process runs on the slave node
* It is per application specific library works with NodeManager to execute the task
* It performs
  + Negotiating suitable resource containers on slave node from ResourceManager
  + Working with one or multiple NodeManagers to monitor task execution on slave nodes