8-16-43

b. Mobile interractive applications, to Process lange volume of stata.

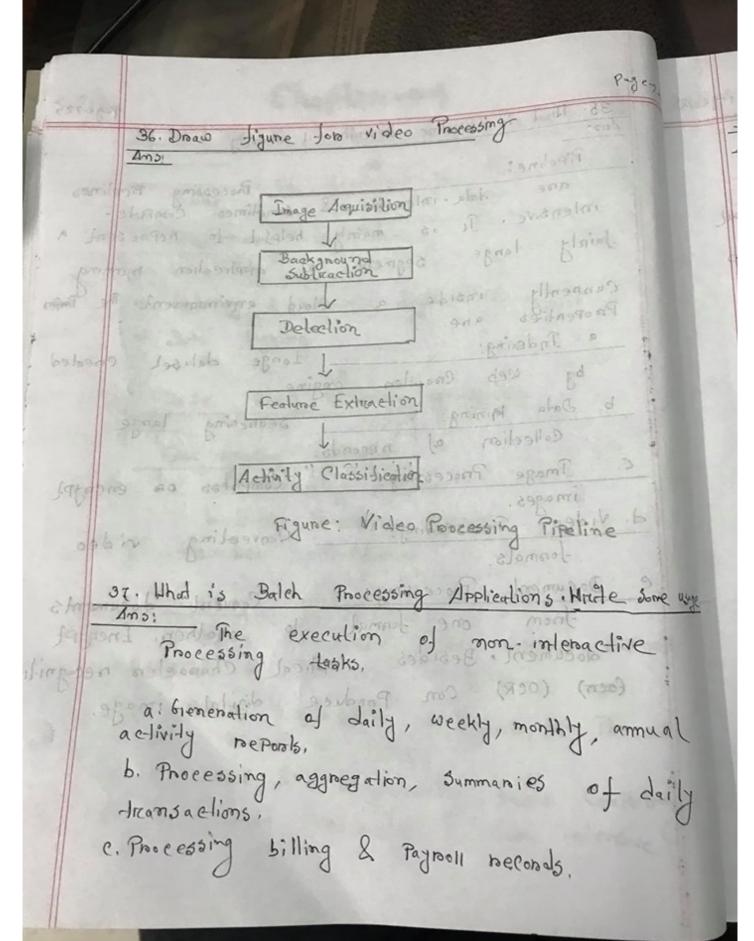
c. deience & engineering based Computing to Compute intensive & data intensive

35. What is Pipeline Describe it shouly Ans: Pipeline:

Ane data-intensive & sometimes Compute-Pipeline: intensive. It is mainly helpful to neproesent a Jainly large segment of application numing currently inside a cloud environment. The Pages Properties ane. Lange dalaset croedled a. Indexing: by web Croawlers engine.

Data Mining: Seanching lange b. Data Mining: collection of neconds, c. Image Processing: Compress on encrypt images. d. Video Transcoding: Conventing video Joanals, Converd Processing: Converd documents Inom one format to another. Energipt document. Besides oplical Chanaelen recognition (ocn) (ocr) con Produce digital image. De Ponto b. tracesony, aggregation Symmanies of daily

charges & paillid processed s



Page-127

38. What are the anchitectural styles for cloud application.

The anchilectural styles of cloud a Client - Server Para digm.

bar Stateless serven Panadigm Task

c. Remole Procedure Ralls Paradigm

d. Simple Object Access Producol (SOAP) Pana digm

e. ReProesentational state Transfer [REST] Panadigm

Elient - server to BAIN client GA-Senven Ga AIRT Connect -200 20, The stateless server in GARIAT client CAT server an aler Connection establish gradi -ND,

A statele stateless servers Paradigm neaprest & nesponse Prodocol Magia dela of slate less servers [HMP - Tep] garage as(a

To SOAP [XIML JORMAL] JAPIA TOLA, SOAP [TCP,UDP] Prolocal MARIA TOGO,

म REST निविष्ठ Prolocol विद्याप काल कादि ।
एव REST सुमाण अकारी Anchilectural अपृष्टि

Ans:	The state of the s
SOAP	REST Column
a. SOAP is Prootocol.	a. REST is an anchi-lectural
b. SOAP Can not use REST.	b. REST can use SOAP
e. JOAP OBES uses Services interface to expose the business logic.	e. REST uses URI to expose business logic
bandwith.	s. Requires 1ess bondwith
e. Only Supports XIML	message tonmats.

Serater La ales Connection establish

Work Flows

A statele stateless A Process description is called

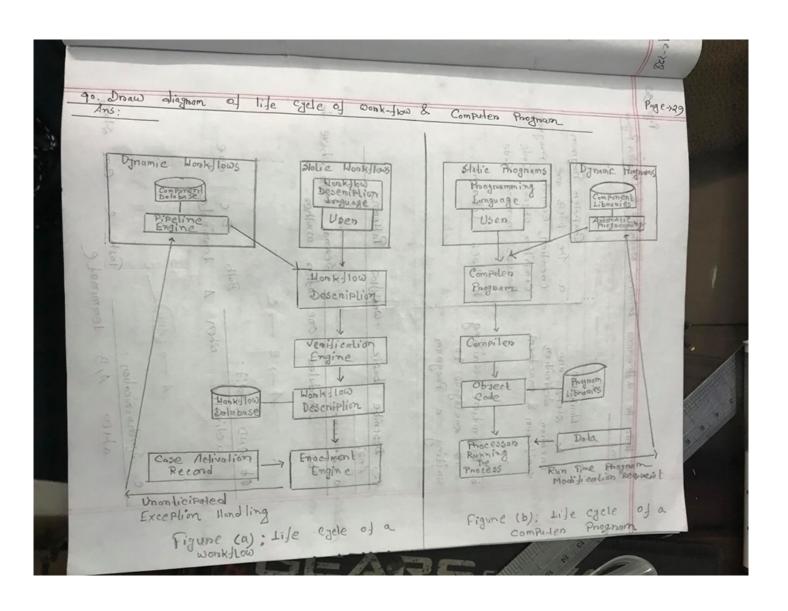
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The four House [ James Jux] doop the

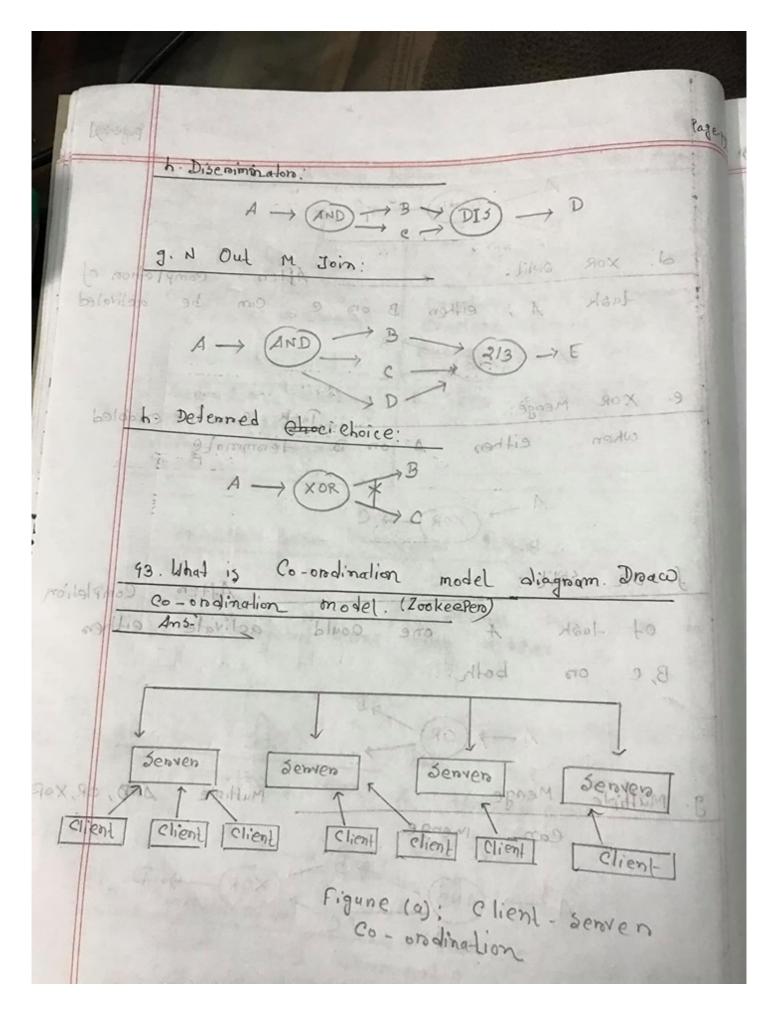
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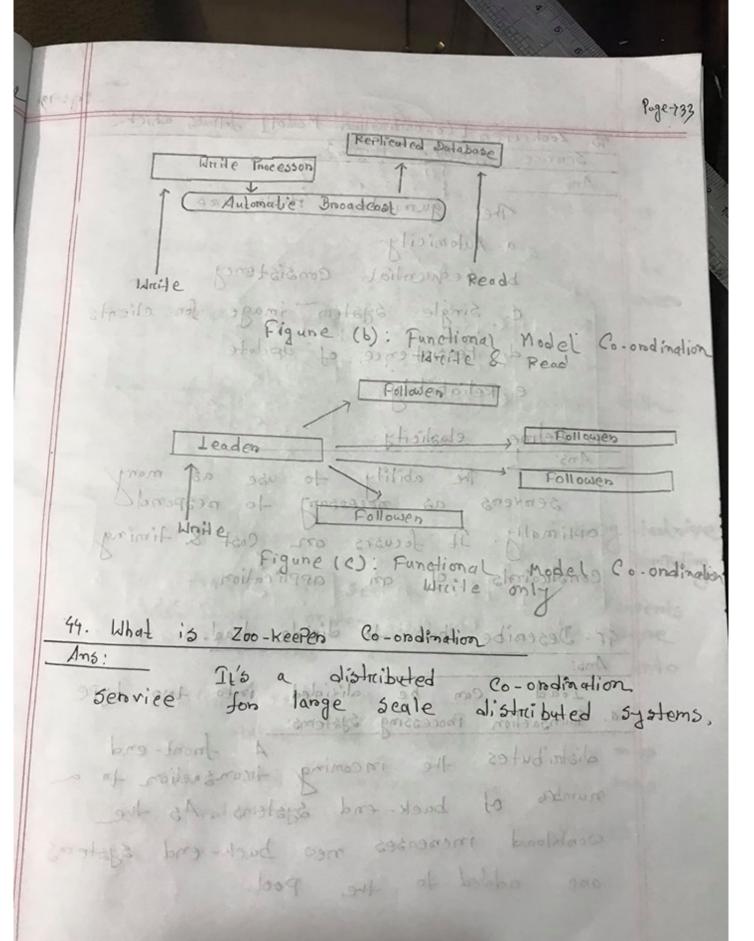
Piclocol Apapa Told.

REST TAKER RETOKE TAKER TOPA REST SATE SAND SANDIE AMERICANICAL &



	& Computer Program	
41. Unite the differences be	lween workflow & Computer Program	
Ans:		
	Competers Program	
a. The steps are	6 6 1000 000	
eneation definition,	and Computers	
versification & enactment.	Compilero, object Code,	
b. Dedinition writing	b. Voes library.	
writing a Proogram.	03	
42. Describe basic wo Ans:  a. Sequence:  be scheduled one  A->B->	_ sevenal tasks have to	
a de livated when A terminates		
$A \longrightarrow (AND)$	→3 →c	
c. Synchroonization:	C	
atter A/B tero	minate con starot	





45. Zookeepen [Co-ondination Model], Jollows which Service gurantee Points? Ans: The gunantee Points and a. Automicity b. sequential consistency c. Single system image for clients d. Pensistence of update. e. Reliability. 46. Define elasticity: The ability to use as many servers as necessary to respond oplimally. It focuses on cost & timing Constraints of an application. 48. Deservibe of how to divide load of took of i èm! a. Transaction Processing Statems: alistrobutes the incoming transaction to a number of back-end systems. As the workload increases new back-end systems ane added to the Pool.

9-90-93

## b. Data Intensive Batch Application:

It dollows two ways.

- i. Modularly Divisible: The workload Partitioning is aldried a Projoni.
- Partition ed into on arbitrarily large numbers of smallers workloads.

## 48. What is Map Reduce Philosophy. Deseroise with Proper Ligure.

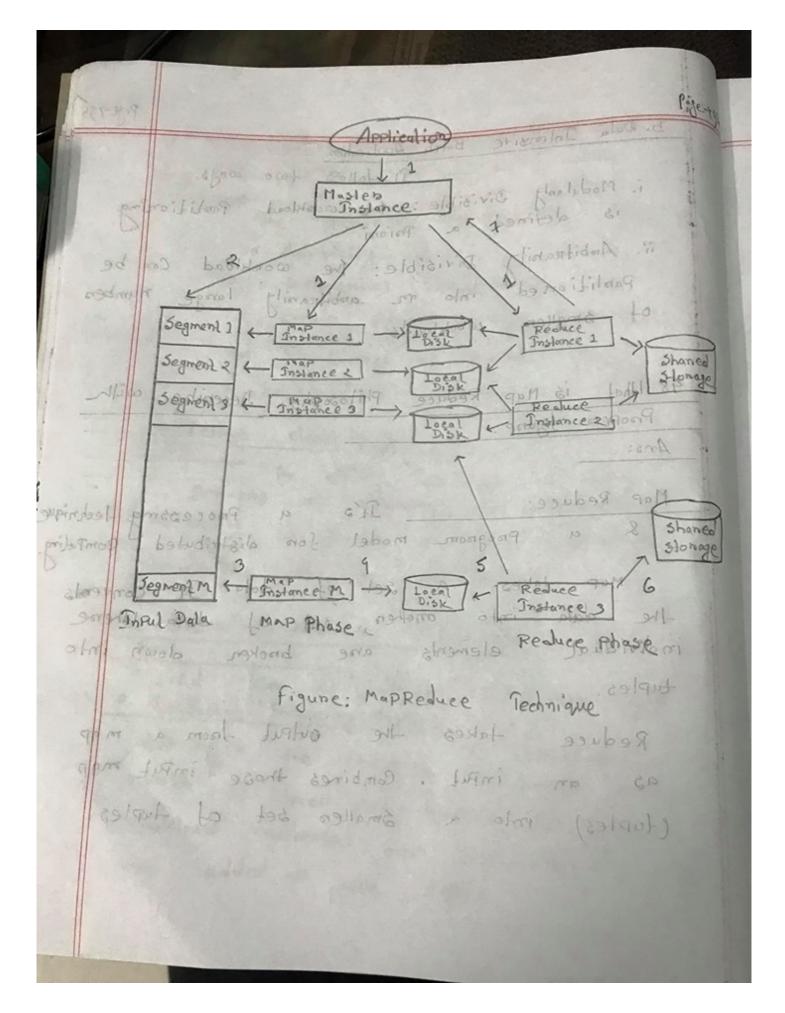
Ans:

Map Reduce: It's a Processing lechnique.

& a Program model for alistributed computing.

Map takes a set of data. It convents
the data into another set of data. Where
individual elements are broken alown into
tuples.

Reduce takes the output Iron a map as an input. Combines those input map (tuples) into a smaller set of tuples.



- 1. An application starts a masters instance.

  M -> Numbers of workers instances for Map Phase.

  R -> Numbers of Worskers instances for Reduce Phase.
- 2. The Masters instance Paralitions the input data in M segments.
- 3. Each map instance neads its imput data segment & Processes the data.
- 4. The mesults stoned on local disks.
- 5. After Sinishing Processing of data. R meduce instances nead the nesults of the Sinst Phase & menge the Partial nesults.
- 6. The final nesults are written by the neduce instances to a shared storage server.
- The masters instance monitors the reduce instances & when all of them report task completion; the application is terminated.