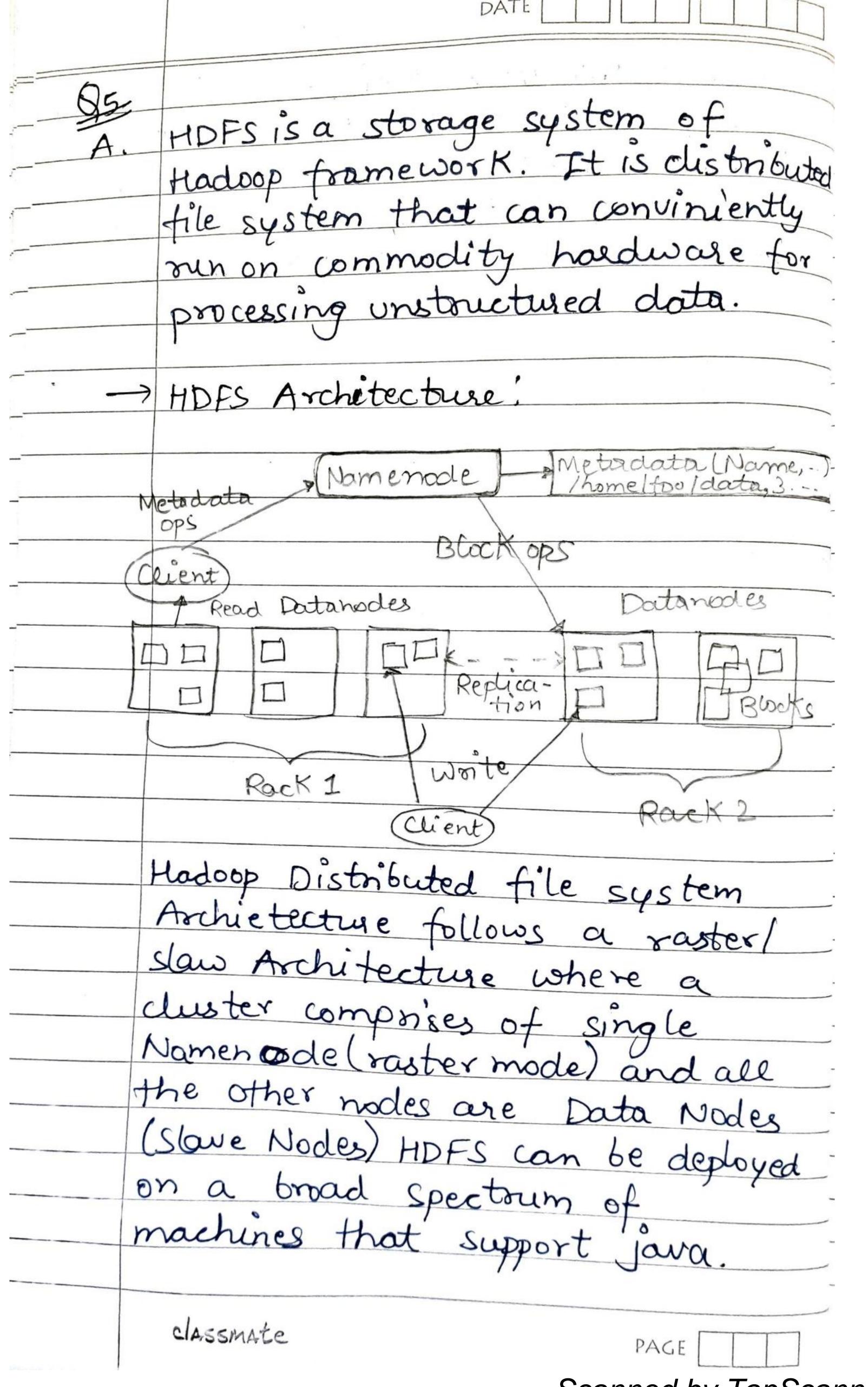
DATE DITT
Name: Shivam Sharma
Roll no: 14/1018649
Section: D
Semester: 5th
Date: 14/sept/2020
Subject: Hadoop Fundamentals (TCS-56:
dota Effectively.
91.
A. Big data is term that describes large
volume of data - both structured
and unstructured. Big data can be
analyzed for insights that lead to
better decision and strategic business
muves,
Ciel sau agortos inspiro yatro bang
-> Characteristics:
(i) Volume: It réfers to unimaginable
amount of information generated every
from social media, credit cards, etc.
the set not atom the same to the second to t
(ii) Variety: It refers to hetrogenous sources
and the nature of data, both structured
and unstructured.
the state of parameter of soft
- Will Velocity: Velocity refers to speed of
generation of data How fast the
data is generated and processed to
meet the demands, determines real
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Ç=	potential in data.	
	Variablity: This refers to in which can be shown by	consistency
	which can be shown by times, thus hampening th	e process
	of being able to handle of data effectively.	and manage
	•	•
$\longrightarrow 7$	1. Banking and Security These industry rely heavily	n Big Data
	for risk Analytics, includin	ng Antimoney
	laundering, demand ente maragement and fraud	
->	Retail traders, Big banks,	hedge funds
	and other organizations Data for trade analytics	use Big
}	high frequency trading.	4.
2.	Transportation:	
\rightarrow	Government use big data	for traffic
	control, route planning,	
-> r	Many individuals use	Big Data
	for route, planning to s	ave fuel
	classmate	PAGE [

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Q2	
Ā.	Some data mining techniques avre:
1.	Tracking Patterns: This technique is usually a recognition of some aberration in your data happening
	usually a recognition of some
13.1	aberration in your data happening
£ "	at regular intervals or an ebb and
	flow of a certain variable over time.
. /-	
2.	Classification: It is more complex
,	data mining technique that forces
	you to collect various attributes
3	together into discernable categories,
Le	which you can then use to draw
	further conclusions.
マ	Association: Association is related to
	tooking patterne but it is more
	specific todependently linked variables.
	Jest and
4.	Outlier detection: It simply recognize
	Outlier detection. It simply recognize the overarching pattern can't give
	you clear understanding of your
	data set. You also need to be able to
	data set. You also need to be able to identify anomalies, or outliers in your
	data
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	Clustering: Clustering is very similar - to classification, but involves
٥,	to classification, but involves
	grouping chunks of data
•	based on similarities.
6.	Regression: It is used as of planning
J~.	and modeling, is used to identify
	the likelihood of certain variable,
	guen the presense of other valiable.
·チ	Prediction: Prediction is one of the
	most valuable data mining technique
	since it is used to project. The type
	of data you will see in future.
	Just recognizing and understanding
	historical trends is enough to
	chart a accurate prediction of
	what will happen in future.
2	Bio Data Farmela . A o
J. J.	Big Data Ecosystemi A Big Data
	structure analytics and aline
	structure, analytics and application.
	Data Ecosystem provide companies
	with data that they rely on to
	inderstand their customer and
1	o make better pricing, operations.
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and mosketing decisions. The term Ecosystem is used nother that 'Environment' because like real ecosystems are intended to evolve over time.
Cotto Services (Integration
Infoar Staneture Staneture Big Pouto
Ecosystem
Storage Specialized ISVs.
Potabases Big Four
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B.	Secondary Name Node in hadoop is
	specially dedicated mode in HDFS
	cluster whose main function is to
	take checkpoints of file system
	metadata present on namenode. It
	is not a backup name node.
	As the Name Node is single point of
	failure in HDFS, if Nome Node fails
	entire HPFS file system is lost. In
	order to overcome this Hadrop
	Implemented Secondary Name Node
	whose main function is to store
	a copy of Fshmage file and edits
	log file.
	Secondary Name Node is not a toue
	backup Namerade and cannot serve
	primary Name Noders operations.
\rightarrow	Secondary Name Node Functions:
•	stores a copy of FsImage and edits log.
•	Periodically applies edits log records
	to FsImage file & refreshes edit logs.
•	If Name Node is failed, File system
	Metadata can be recovered from last
	saved Fs Image on secondary Name Node.
	Check pointing of File System Metadata
	is performed.
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