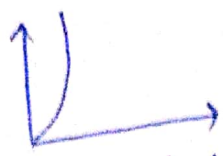**Q1** => Big Data:-

Q2
- Mostly Unstructured (90%) like video, photos & text.
- Store in PB, EB like facebook store 4PB of data daily

Q3
- Increase Exponentially

Q4

- Globally Present, Distributed. (store in data center)
- Software used Hadoop, Spark (High processing speed). Big Query.
- Multinode cluster (like facebook has many server, so they have many node.).

=> Data Warehouse:-

Data warehouse is centralized location where all your data from data sources are stored. Stages of data warehouse ① collect ② store ③ analyze ④ comsume

- In collect data is collected from source and store in staging layer using ETL.
- Then we analyze data which is stored, we do transformation shape the data, then we comsume it by making graph. we explore data
- Characteristic of data warehouse:-
  i) Integrated
  ii) Time variant
  iii) Non-volatile.
  iv) subject oriented.

=> Data base:-

A database is a systematic collection of data. They support electronic storage and manipulation of data. Database make data management easy.

$\frac{1}{Fe}$

$\frac{1}{Sig}$

Data lake:-

It is a place to store structured and unstructured data. Use case of data lake.

i) Ingest & transform.

ii) Persist & access.

iii) Analyze & use data science.