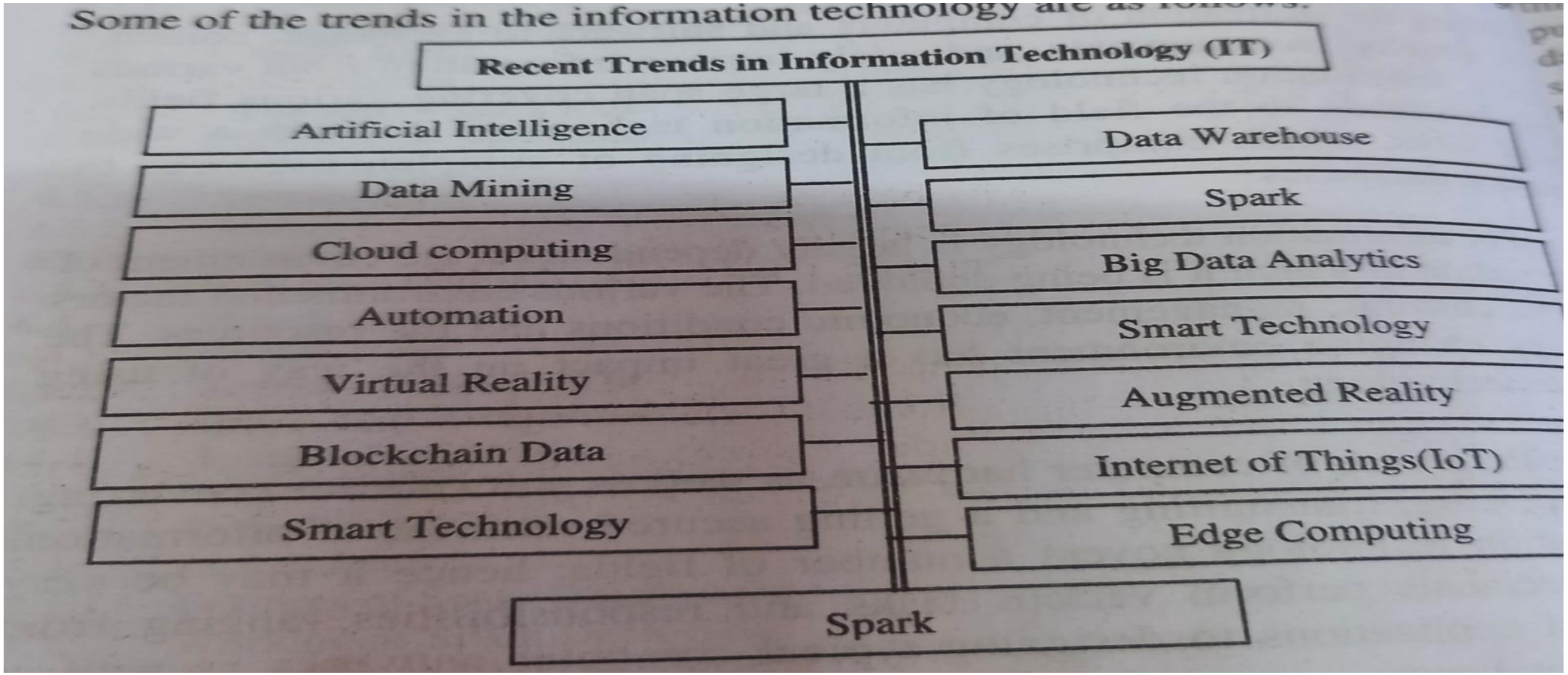
information technology(IT) has become an integral part of our daily life. information technology(IT) is the use of any computers,storage,networking and other physical devices,infrastructure and process to create,process,store,secure and exchange all forms of electronic data.typically, IT is used in the context of business operations,as opposed to technology used for personal or entertainment purposes.

DEFINATION: accoding to information technology association of america(ITAA):
it is the study,design,devlopement,implimentation,support or management of computer based information systems ,particularly software applications and computer hardware.



ARIFICIAL INTELLIGENCE:

artificial intelligence is the stimulation of human intelligence processed by machines,especially computer systems. Specific applications of AI include expert systems ,natural language processing,speech recognisation and machine vision.

AI is used in various fields like:

- healthcare
- finance
- personal assistance and better customer experience

some major trends in ai are as follows:

- language modeling
- conversational AI
- AI based cyber security
- computer vision technology in businesses

1. autonomous vehicles: to detect obstacles,tracks,pedestrains,etc.
2. healthcare: to analyze medical scans such as x-rays,CT's and MRI's.
3. manufacturing: to visually inspect equipment.
4. agriculture: to use drones to monitor the conditions in fields and farms.

DATA WEARHOUSING:

COMPILED COPRATE INFORMATION WHICH HAS BEEN OBTAINED FROM OPERATIONAL SYSTEM AND EXTERNAL DATA SOURCES IS REFFERD TO AS THE DATA WEARHOUSING.

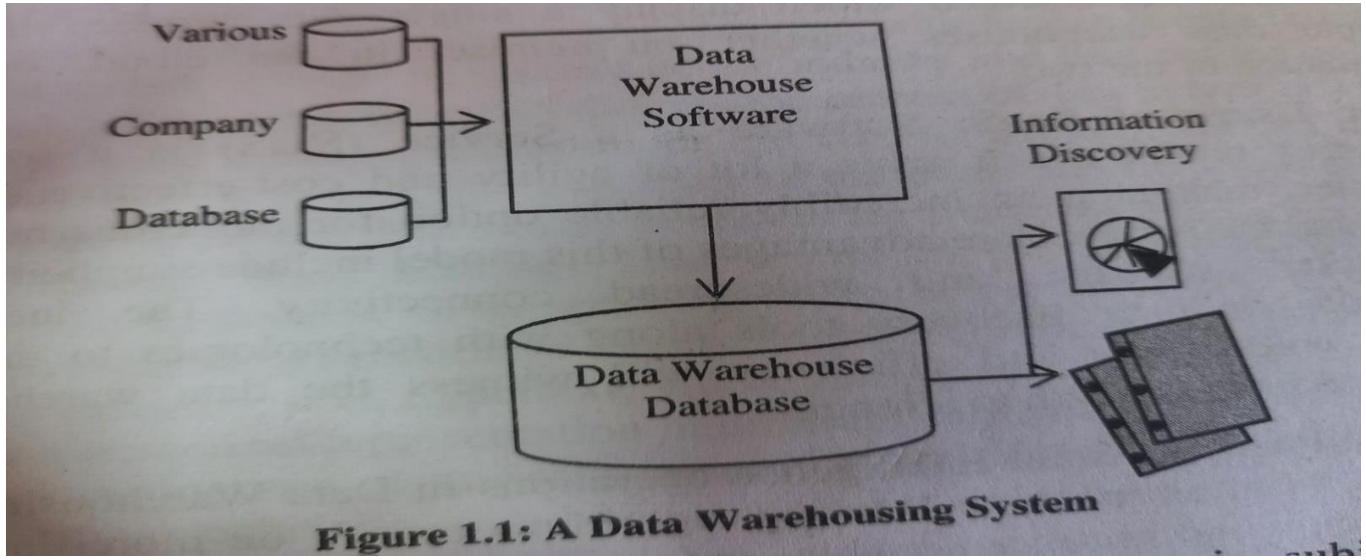


Figure 1.1: A Data Warehousing System

THE MAJOR TRENDS IN DATA WEARHOUSING ARE:

- single data wearhouse
- higher usage of saaS
- AI operations
- IT moniterization services

DATA MINING:

defination:

the practice of analysing large databases in order to generate new information.

key data mining trends for the future include:

- multimedia data mining
- ubiquitous data mining
- distributed data mining
- spatial and geogrophic data mining
- time series and sequence data mining

SPARK:

defination:

spark is an open source framework focused on interactive query,machine learning,and real-time workloads.

For example:-Data based,Hadoop and storm technologies.

Assignment :1

1)Give an introduction of Artificial Intelligence?

2)What is business information?

3)What are the different data mining trends?

4)Explain the spark?

5)Explain the data warehousing with suitable diadram?

6)What do you understand by Data Mining?

7)What are the different trends in Artificial intelligence?