Unit-5 1) Longitudinal Data: AA Longitudinal data refers to the collection of some type of informations at multiple points in time. qu'éor example logitudinal dataset Could Contain the Specific students and their test scores in six or the Primary advantages of longitudinale datasets are they can Change in measures

ap According to the Parformance of Students, of successive closses of students, of successive closses of students, we can product teachers effectiveness charge and also we can charge their experiences.

Athe longitudinal data extend Porto the post as well as present

Eg:

	make the parties of	The latest March		The second secon		
None of	2001	2002	dec3	2004	7	
Ravi	339	350	361	361	1	
Animabel	832	343	350	351	-	
Jaho Lin	360	3.80	400/	420		
	2.00	-	1 - 400		-	

## 2) TSA:

of observation or samples of observation data obtained through well defined data obtained through repeated mesoprements over a time

x for example, measuring the value ob retail sales each month of the year. A An observed teme seres can be de composed into there.
Componets; namely. A The trend of The Seasonal on the irregulars data that is collected at a different points in tome. cross-sectional data which or Time Series fore casting or Sieves Predict the future be haviour based on business data. war dayif ladala 21 daying constage constance of animal expense. Later Table ty-or muty

\* Eg for TSA: a weather data. & Prinfall measurement op Temperature Readings of Heart rate monitoring & Brain Monitoring op Quarterly Sales a Stockhol trices of Interest votes to Industry, fore casts. \* Trend 9075 - 2an liong - term morement or direction in data. EXITY Indicates whether the divoriable is generally increasing decreasing or staying constant over time. actrend is classified into five types, uptrend, Downtrend, up-to-dow

down-to-up, Horizontal.

AMA Horizontal. Broken & physical Seasonal & periodic aseasoral podtarn follow a Specific time frames suchillas daily monthly or yourly cycle En Portholidays, charst mas, Fregular: Foxf. Coursepou you - reditable city spher = 5 Algorithm, text to cipher - codedo me Orginal massag Emphros (cherypt) -> Ciphen fight do Endopher (energy) -> plaintent "to cipher text