D = 43/- 1 3

Accuracy = 
$$\frac{Tp + TN}{to tax} = \frac{85 + 9}{100} = 0.94$$
  
Precision =  $\frac{Tp}{(TP + FP)} = \frac{85}{85 + 4} = 0.95$ 

Sensetivity = 
$$\frac{TP}{TP+FN} = \frac{85}{85+2} = 0.97$$

F-measure = 
$$\frac{2}{\frac{1}{pnecision} + \frac{1}{sensitivity}} = \frac{2}{\frac{1}{0.95} + \frac{1}{0.97}} = 0.96$$

Specificity = 
$$\frac{TN}{TN+FP} = \frac{9}{9+4} = 0.692$$

Let the value of k=3 then according to dataset nearest members are (160,60, M), (163,60, M), (163,60, M), (163,61, m) so T-shirt size of castomer (161,61) is M.

if k=5 then nearest members are (160,60,M), (163,61,M) (163,60,M), (160,64,1), as the masority voting approach no of M is max so the customers of

## hight 161 cms and 61 kgs get t-shind size of 1

**9** 

Hight (cms)	weight (kgs)	T-Shirpt Size	distance
158	5%	M	mom (161,
158	59	The state of the s	4.24
158	63	M	3.6
160	5 9	M	3.6
160	60	M	2.2
163	60	M	1.4
163	61	Manager of the state of the sta	5.2
160	64	M	5.0
163	64	L	3.16
165		L	3.6
165	C 9	L	4.0
165	62	L	4.1
168	65	L	5.65
168	42	L	7.67
There to the there was the said of	63	L	7.28.
16 8	66	L	8.6
071	63	- mar L	9.21
170	64	L	AND THE RESERVE AND ADDRESS OF THE PARTY OF
170	68	<u>L</u>	9 48

## Data Wanehouse: -

Data warehouse is a central repository system in which business stone valuable information, such as customer and sales data, for analytics and reposting purpose.

## Data werehouse benefits: -

(i) Provide a stable centralized nepository for longe amounts of historical data.

(ii) Increse a business's overall return on investment.

(iii) Improve data quality.

(iv) Enhance BI performance and capabilities by drawing on multiple sowrcer.

(v) Provide acess to historical data business - wide.

(vi) Use AI and machine Learning to improve business analytics.

## key components: -

(1) central Database: -

If data wonehouse integnate data from multiple sources and external data source.

GAT THE

(i) ETL:-

This refers to the process of enhanting data from multiple source, mansforming it into a comfort formal and loading it into the data wavehouse.

h

(iii) Metadaha: \_

. It provide the data stoned in data wavehouse. Including data definitions, linage and mansformation rules.

(iv) Access conmols: -

Access tools allows usens to interact with the data in data werehouse.

ETL -> Controls

Database

meta data.