MODULE :5

URAPHS AND CHARTS

I Bar plot

* barplot ()

, we can Supply a vector or matrix as Ilp

a If we supplay a vector, the plot will have bars with their heights equal to the elmbs. A in the vetor.

Eg: temp = c (27, 26, 23, 24, 26, 28, 25) barplot (temp)

min - heading xlab - namis name

Flab - y and name

name arg - name of each bar

col - color name of bar.

horiz - horitzontal graph (horiz = TRUE)

density - shading (density = 10)

border - bar border color.

Pie chart. function; pie (x)

Eg:
$$x = c(1,1,1,2,2,3,3,4,4,4)$$

 $y = table(x)$
 $pie(y)$

- * main :- heading
- > pre(y, main = "First")
- * x Input values
- * labels to give labels names for slides
- edges Circular olp of pie is appronimated by a polygon with many edges [default: 200]
- * radius to change radius, default-0.8

- elockwise to label in clockwise direction.

 (clockwise = T)
- density to shade pie.
 - eg: density = ((10,20,30,40) ->
 diff. shading. each stree
- * col to give colors.

 col = rainbow (15)
- * border to give border border = F
- · we can make 30 by installing plotria Eq. pie 30 (y)
- > piezo (y, explode = 02)

It make the pie enart into pieces.

HISTOURAM

x = c(1,1,1,1,1,2,2,2,2,3,3,3,4,4) y = table(x) $y = \frac{3}{4}$ $y = \frac{3}{4}$ y =

To see grouping;

> cut(x,6)

- * main heading
- * xlab 2 aris name
- « yeab y aris name.
- * xlim on limit
- * ylim y limit
- * col colour.
- * density shading. density = (20,30,40)

- freq. get the probability distri.
 instead of freq.
 freq = FALSE
- , las to show the limit values horizontaly. las = TRUE
- * border Set border border = F
- * breaks no: of fells we want.
 - place where the break occur
- * Counts no of observations falling in that cell.

Plotbases plot () SCATTER PLOT > plot (c(5,6,7,8,9))) X=185. 0 > y = 6:10 > plot (x,y) * main - heading * xlab -* ylab -* col - color * type - 'P' for points "I" for lines 'b' both line & point - - -'e' for lines part alone of b 'o' over ploted -

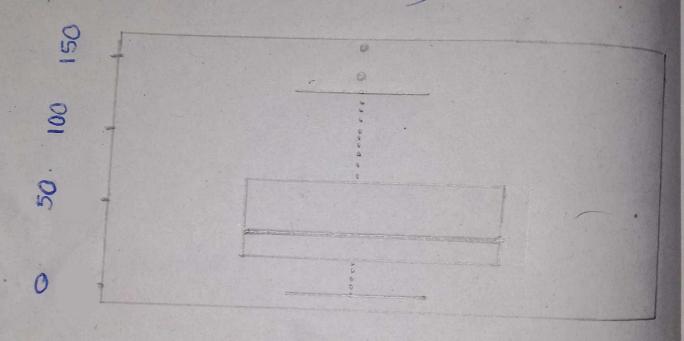
's' for histogram
's' for stair
's'
'n' no ploting.

BOX PLOT

- · quantitative data ploting.
- · function bomplot

Enample :

> boxplot (airquality \$ ozone)



- * main
- * Alab
- * ylab
- * col
- * notch notch in the plot notch = T
- * horizontal -: horizontal = T

display box plot horizontaly.

multiple box plot;

7 OZ = airquality \$ ozone

7 temp = airquality \$ temp

7 wind = airquality \$ wind

7 boxplot (oz, temp, wind)

* varwidth :

- changes the bon width
- verwidth = 1
- * border It change border color.