

## GRAPHICAL REPRESENTATION

BAR PLOTS IN R

Inputs can be vector, matrix etc.
The 4 types are:

- a) Simple Bar Plot

  i) Horizontal "

  c) Stacked "

  stacked "
- d) Grouped 11

\* created by using > barplot() function

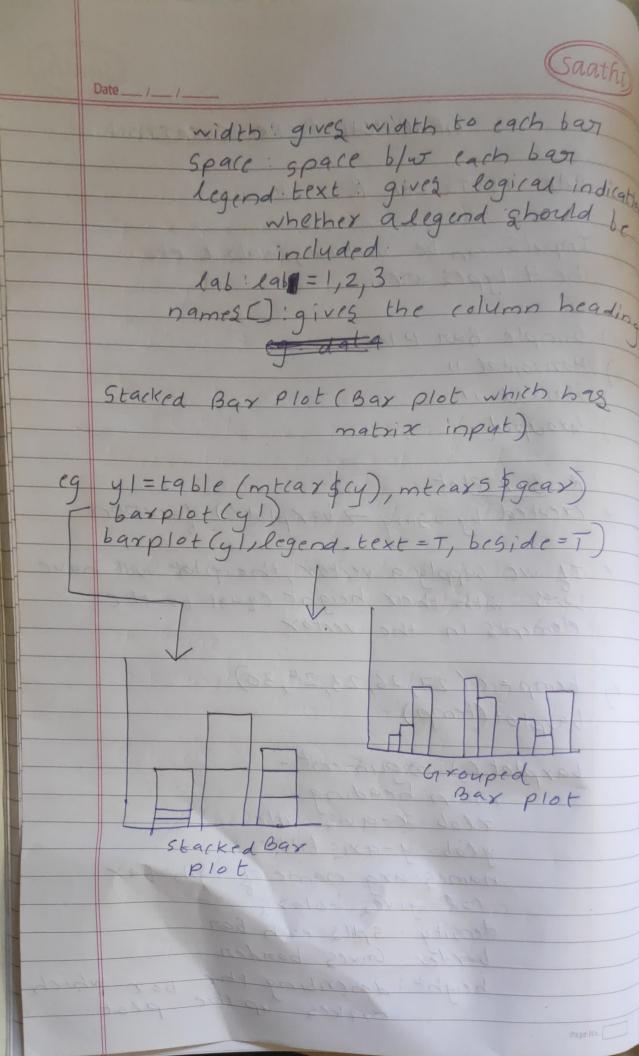
- \* If we supply a vector, the plot will have bars with their height equal to the elements in the vector
- eg temp = ((27, 26, 23, 24, 30) 6 applot (temp)

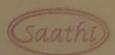
barplot () argument -main: heading xlob: x-axis title ylob: y-axis title names arg name of each bax

(ol: gives colors

density spits each bar border: brives bonden

height i describing the box which makes up the plat.





angle: the slope of st shading lines pan (mfrows = ((2,2)): gives two row and two columns

par (mfrows = c(1,1)): default.

barplot (y, col = c(10,12,13))

= gives each bar each

barplot (y, col = rainbow(1))

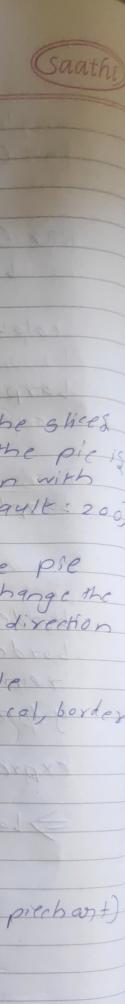
> gives, a colourin the

barplot (y, col=rainbow (5#1,n:15)
> gives the lightest

border F without border border. T: with border yeim limit for the y-axis

expressions (sum (1)) gives the heading

=) barplot (y, main: expression (xty) (alpha) (beta)



piechant eg: x=((1,1,1,2,2,3,34,4,4) y=table(x)

pie(y)

Tau sects Arguments X: input values - la place Cast Labels : Giving names for the shees Edges: the cixcular outline of the picis approximated by a polygon with the many edges (default 200) radius: gives the radius of the pse (-1,1) change the init angle: Changes the angle density, main, angle, col, border (plotrix Parkage) 7 for 30 7 pie 30 pie 30() function (fox 30 prechant) explode:



Histogram hist () function

x=c(1,1,1,1,1,2,2,2,2,3,3,3,4,4)

(ut (x,6): shows the interval

data ("caxs")

head ("caxs")

hist (cax speed)

breaks one of a vector giving the breakpoints blu histogram cells

breaks = 22:22 ints (No of columns)

xlab, ylab, main, xlim, ylim, col, freq

Return value of hist()

h < hist (temp)

counts: the no of observations falling

density: density of the cells
mids: midpoint of the cell
xname: the x-angument name
equidist: a logical value indicating
if the breaks are equally
spaced on not.



Breaks: we can specify the no of sells we want in the histogram and we can also give vectors

Scatter Plot

proto junction Generic X-y plotting

plot (1,2,3,4). plot the values in (4,4)

plot (5, 8, 7, 8): plots the values in (4,8)

eg  $x=1: \xi$  y=c:10 p(0+(x,y))

(1,6), (2,7) (3,4), (4,9), (5,10)

arguments: main, xlab, ylab, col

type= p", points o o o

11 lines

"o" for the line alone of

