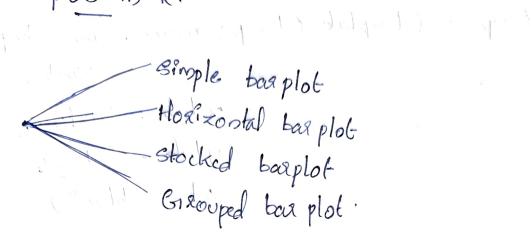
## Module - 5 Graphs and charts.

Bas plots in R.



R Boxplot. and will some sty & -11

· Created by using > bouplot 1) function.

Inputs can be rector, matrix

le we supply a vertor the plot will have bors with their beight equal to the eliments Pro the vector.

temp = c(24, 86, 23, 24, 30)basplot (temp)

Alaguments used.

main -> used to give heading. x lab > x - axis name y lab -> y-axes name

```
col -> give colour to bus
horiz -> TRUE (boxiz - bonizonal graph)
names arg -> name of each bar.
temp = c (basplot (temp; main = "max lump in a
             dolphot offer week"
             x lab = "celaus"
             glab = " Day",
            col = "blue")
 Space -> give space blu beas
 density -> give line fostde box.
 border -> border to bors
 width -> size of bars.
 \alpha = c(111111222,2,2,2,3,3,1,1,2,2,3,3)
 c) = table (x)
 basplot (beight = g, width = c(5:8))
         ( beight = 9, space = 5)
          (beight = g, name. org = LETTERS (1:3))
          (beight = y, name org = leffers (1:3))
```

bouplot (beight g)

Pie chart. and say. I - sahred

Punction; pre (x)

2 = ((1), 1, 2, 2, 3, 3, 4, 4, 4) g = table (x) pre (g)



- pre (y, moon = "First")
- x Popul values
- labels to give labels names for skdes
- esacular output pre is approprimated edges by a polygon with many edges [default: 200]

Culd water

Radius - to change radius, défault-0.8.

- elockwise to label in clockwise dracetion (elockwise = T)

  density to shade pre
  es: density = c[10, 20, 30, 40) -) diff-shading each st
  - col to give coloas

    col = 2200 bous (15)
- border to give border

  border = F()
- · We can make 3D by finstalling plotaix
- > pre 3D (y, explode = 0.2)

  If make the pre chart into preces.

Histogram

X = e(1,1,1,1,2,2,2,3,3,3,4,4)y = -1able(x)

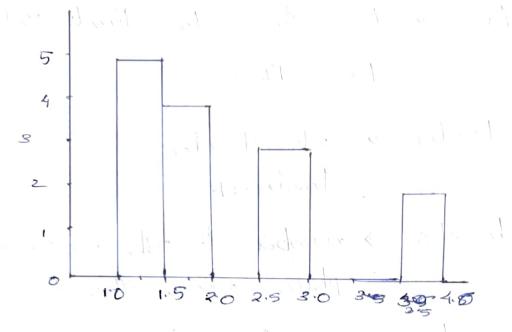
2 0

> 2

1 2 3 4 quantitable data plothing

Start winer 1) and

7 WS6 (x)



To see grouping;

· wasn -> beading

· xlab -> or axis name

· ylab -> y anis name

xlin -> x limit

glim -> g limit

eol -> coloux

density -> shading. dessity = c(20,30,40)

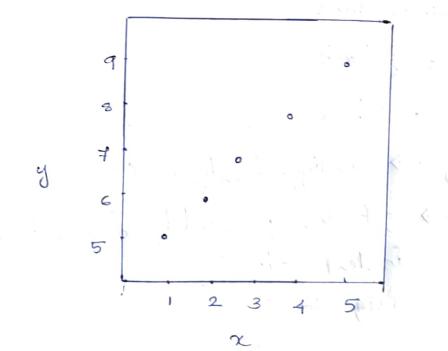
Pag -> get the probability distailbution instead of Paguery Pag = FALSE

- las -> to show the Rimit values bod zootal
- · border -> set border border = F
- · breaks -> number of cells we want.

  place where the break onux.
- · counts -> no. of observations falling in that

Scatter Plot.

> plot (c (5, 6, 7, 8, 9))



> 2 = 1:5 7 9 = 6:10 > plot (x,y) 10 Ji Staxplak C Tyeshig & 2 main -> heading x lab -> glab -> col-> colour -> 'P' for points 'l' for lines b' the both line and point 'c' for lines part alone for of b' (0) over plotted

(b) for histograms
(s) for stails
(s)
(o) Por plothing.

Box Plot.

- · quantitative data plotting.
- · Function boxplot

eg: > boxplot (alaquality & oxone)



1 45 1, 8 10

- · main
- · Rlab
- · y lab
- · noteb -> noteb & the plot norteb = T
- · horizontal -> display box plot borizontaly
  horizontal = T

multiple box plot:

- > 02 = asquality & oxone
- > temp = airquality & temperature
- > wind = airquality & wind
- > boxplot & oz, temp, wind)
- · vaswidth:
  - changes the box width
  - varwidth = 1
  - · border it change border colon.