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Experiment 3

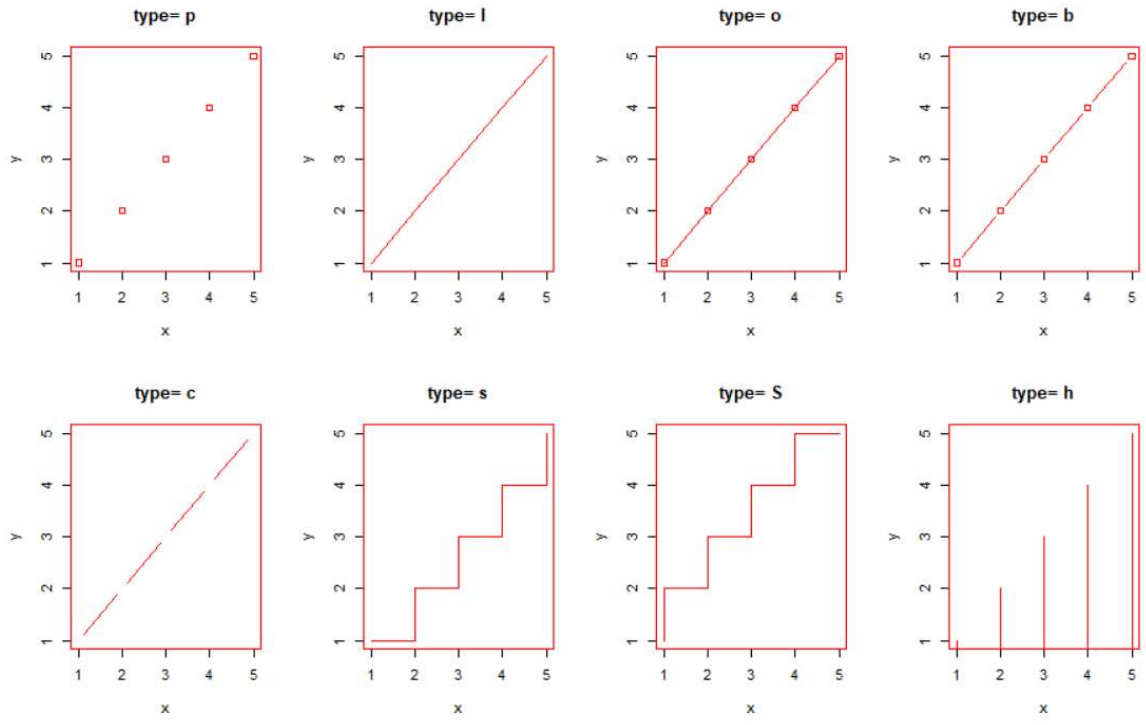
AIM: Visualizing data using R with different type of graphs and charts

4.Line Graph

Code:

```
x <-c(1:5);
y <-c(1:5);
par(pch=22, col="red")
par(mfrow=c(2,4))
opts=c("p","l","o","b","c","s","S","h")
for(i in 1:length(opts)) {
 heading = paste("type=",opts[i])
 plot(x, y,type=opts[i], main=heading)
 }
```

Output:

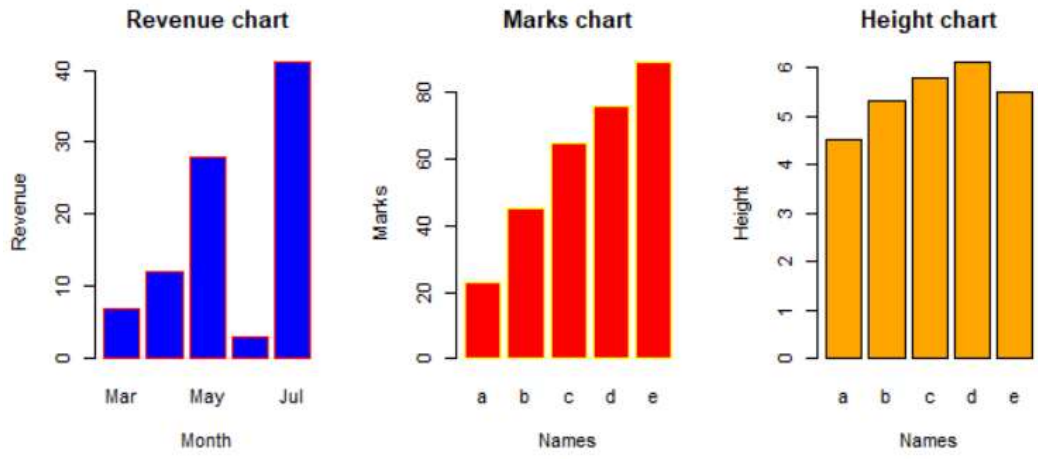


5.Bar Plot

Code:

```
H<-c(7,12,28,3,41)

M<-c("Mar","Apr", "May","Jun","Jul")

barplot(H,names.arg=M,xlab="Month",ylab="Revenue",col="blue",
main="Revenue chart",border="red")


Marks<-c(23,45,65,76,89)

names<-c('a','b','c','d','e')

barplot(Marks,names.arg=names,xlab="Names",ylab="Marks",col="red",
main="Marks chart",border="yellow")


height<-c(4.5,5.3,5.8,6.1,5.5)

barplot(height,names.arg=names,xlab="Names",ylab="Height",col="orange",
main="Height chart",border="black")
```

Output:



Code:

```
colors= c("green","orange","brown")

months <-c("Mar","Apr","May","Jun","Jul")

regions <-c("East","West","North")

Values <- matrix(c(2,9,3,11,9,4,8,7,3,12,5,2,8,10,11), nrow = 3, ncol = 5,byrow = TRUE)

barplot(Values, main="total revenue", names.arg = months, xlab = "month", ylab = "revenue", col = colors)

legend("topleft", regions, cex = 1.3, fill = colors)
```

Output: