**4a) matrics**

mbee=matrix(data=c(1,12,2,13,3,14,4,15,5,16,6,17,7,18,8,19,20,9,10,34,45,54,32,21,22),nrow=5,ncol=5)

mbee

plantnames=list("thistle","vipers","goldenrain","yellowalfala","blackberry")

plantframes=as.data.frame(plantnames)

str(plantframes)

plantmatrix=as.matrix(plantframes)

str(plantmatrix)

rownames(mbee)=plantmatrix

mbee

class(mbee)

**4b)list**

intnum=c(10,20,30)

strv=c("water","lemon","juice")

numnum=c(23.3,44,5,89.0)

list1=list(intnum,strv,numnum)

names(list1)=c("interger number","string","number ic num")

list1