DATA ANALYTICS WITH R, EXCEL AND TABLAEU ASSIGNMENT 7.2 ANSWERS By ASHISH S SHANBHAG

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Question no:

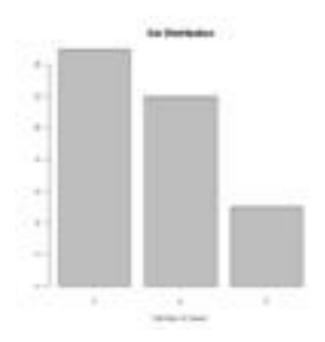
5)

1) Write a program to create barplots for all the categorical columns in mtcars

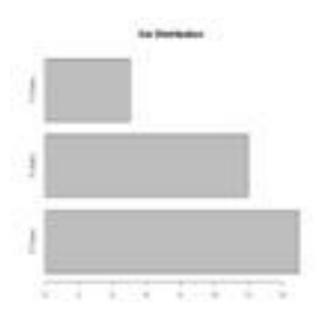
Ans

Simple Bar Plot

Simple Bar Plot counts <- table(mtcars\$gear) barplot(counts, main="Car Distribution", xlab="Number of Gears")

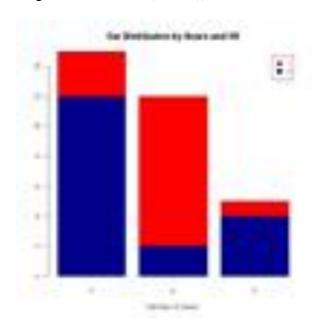


Simple Horizontal Bar Plot with Added Labels counts <- table(mtcars\$gear)
barplot(counts, main="Car Distribution", horiz=TRUE, names.arg=c("3 Gears", "4 Gears", "5 Gears"))



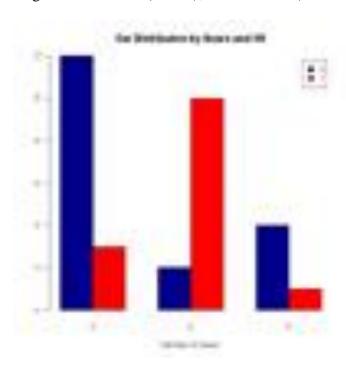
Stacked Bar Plot

Stacked Bar Plot with Colors and Legend counts <- table(mtcars\$vs, mtcars\$gear) barplot(counts, main="Car Distribution by Gears and VS", xlab="Number of Gears", col=c("darkblue","red"), legend = rownames(counts))



Grouped Bar Plot

Grouped Bar Plot counts <- table(mtcars\$vs, mtcars\$gear) barplot(counts, main="Car Distribution by Gears and VS", xlab="Number of Gears", col=c("darkblue","red"), legend = rownames(counts), beside=TRUE)



2) Create a scatterplot matrix by gear types in mtcars dataset

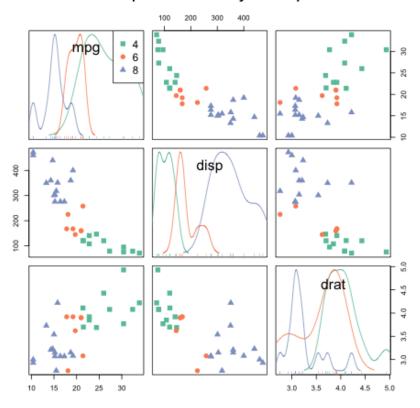
Ans

Packages library(car) library(RColorBrewer)

Let's use the car dataset proposed by R data=mtcars

Make the plot my_colors <- brewer.pal(nlevels(as.factor(data\$cyl)), "Set2") scatterplotMatrix(~mpg+disp+drat|cyl, data=data , reg.line="" , smoother="", col=my_colors , smoother.args=list(col="grey") , cex=1.5 , pch=c(15,16,17) , main="Scatter plot with Three Cylinder Options")

Scatter plot with Three Cylinder Options



3)
Write a program to create a plot density by class variable Ans

Kernel Density Plot

d <- density(mtcars\$mpg) # returns the density data plot(d) # plots the results

Filled Density Plot

d <- density(mtcars\$mpg)</pre>

plot(d, main="Kernel Density of Miles Per Gallon")

polygon(d, col="red", border="blue")