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|  | **Assignment 7.** **2**  **Problem Statement**  **1.Write a program to create barplots for all the categorical columns in mtcars.**  counts<- table(mtcars$cyl) |
|  | barplot(counts ,main="bar plot of cyl",xlab="cyl",ylab="counts",col="blue") |
|  | counts<- table(mtcars$carb) |
|  | barplot(counts ,main="bar plot of carb",xlab="carb",ylab="counts",col="pink") |
|  | counts<- table(mtcars$gear) |
|  | barplot(counts ,main="bar plot of gear",xlab="gear",ylab="counts",col="yellow") |
|  | counts<- table(mtcars$am) |
|  | barplot(counts ,main="bar plot of am",xlab="am",ylab="counts",col="red") |
|  | counts<- table(mtcars$vs) |
|  | barplot(counts ,main="bar plot of vs",xlab="vs",ylab="counts",col="green") |
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|  | **#Problem 2** |
|  | **#2. Create a scatterplot matrix by gear types in mtcars dataset.** |
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|  | #scatter plot for dataset mtcars |
|  | library(ggplot2) |
|  | library(car) |
|  |  |
|  |  |
|  | scatterplotMatrix(~mpg+disp+drat+hp|gear,data=mtcars, |
|  | main="Three Gear Options") |
|  |  |
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|  | **#Problem 3** |
|  | **#3. Write a program to create a plot density by class variable.** |
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|  | class(mtcars) |
|  |  |
|  | #plot density of mpg variable |
|  | d<- density(mtcars$mpg) |
|  | plot(d, main="kernel density of mpg") |
|  | polygon(d,col="blue",border="black") |
|  |  |
|  | #plot density of disp variable |
|  | c<- density(mtcars$disp) |
|  | plot(c, main="kernel density of disp") |
|  | polygon(c,col="green",border="red") |