hw01

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## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

# hw1  
# a)  
setwd(dir = "C:/Users/slexi/Downloads")  
affairs <- read.table("affairs.txt", header = F)  
# b)  
colnames(affairs) <- c("id","male","age","yrsmarr","kids","relig","educ","occup","ratemarr","naffairs","affair","vryhap","hapavg","avgmarr","unhap","vryrel","smerel","slghtrel","notrel")  
#head(affairs)  
  
# c)  
# i)  
sum(affairs$male)

## [1] 286

# we have 286 men in our dataset  
# ii)  
mean(affairs$educ)

## [1] 16.16639

# the average year of schooling is 16.16639  
# iii)  
sum((affairs$male)==0 & (affairs$affair==1))

## [1] 72

# 72 women had affairs within the last year  
  
# d)  
count <- table(affairs$kids,affairs$relig)  
rownames(count) <- c("without Kids","with Kids")  
barplot(count,main = "Religion by Kids",  
 xlab = "Number People...", names.arg = c("Anti","Not at all","Slightly","Somewhat","Very"),  
 horiz = T,legend = rownames(count))

