Assignment 6

```
country<-c('india', 'usa', 'china', 'germany', 'russia', 'india', 'usa', 'china', 'germany', 'russia','india', 'usa', 'china', 'german continent<-c('asia', 'america', 'asia', 'europe', 'europe', 'asia', 'europe', 'asia', 'europe', 'eur
 year<-seq(1:20)
 lifeexp<-c(11.12, 81, 90, 16.12, 16.22, 11.12, 99, 18.25, 16.12, 16.22, 11.12, 19.2, 18.25, 16.12, 16.22, 11.12, 19.2, 18.25, 16.12, 1
 pop < -c(1080, 2200, 3900, 4100, 5300, 1100, 4100, 3001, 4019, 5201, 1254, 2164, 3000, 4000, 5000, 1100, 9000, 3200, 4001, 5890)
 \texttt{gdpPerc<-c(1.1, 5.5, 2.2, 4.4, 30.3, 1.1, 5.5, 2.2, 4.4, 3.3, 1.1, 5.5, 2.2, 4.4, 3.3, 1.1, 5.5, 2.2, 4.4, 3.3)}
df=data.frame(country, continent, year, lifeexp, pop, gdpPerc)
head(df,2)
 aggregate(df$country, by=list(continent=df$continent), FUN=table)
df_raw=filter(df, continent=='europe')
 filter(df_raw, gdpPerc==min(gdpPerc))
 aa<- df %>% group_by(continent, year) %>% summarise(avg=mean(lifeexp))
 # Oues: 4
bb<-df %>% group by(country) %>% summarise(total=sum(gdpPerc))
 sort(bb, total)
# Oues: 5
aa1<-filter(df, lifeexp>80)
aa1$country
aa1$year
aa2<-df %>% group_by(country) %>% summarise(correlation=cor(df$lifeexp, df$gdpPerc))
 df1=subset(df, continent != 'asia')
arrange(df1, desc=df1$pop)
tail(df1, 1)
 as<-tapply(df$pop, df$country, sd)
as<-sort(as)
as[1:3]
# Ques: 9
## Ques: Q2
 # Ques: 1
med<-read.csv("med.csv")
med$exp_date<-as.Date(med$exp_date, "%m/%d/%Y")</pre>
# Oues: 2
head(med, 4)
 # Ques: 3
 tail(med, 4)
days_left=(as.numeric)(med$exp_date-Sys.Date())
cor(med$quantity_in_stock, days_left)
 # Ques: 5
barplot(med$sales, med$manf_year)
 # Oues: 6
 for(i in unique(med$company)){
    if(sum(med$company == i) > 1){
         print(i)
    }
```

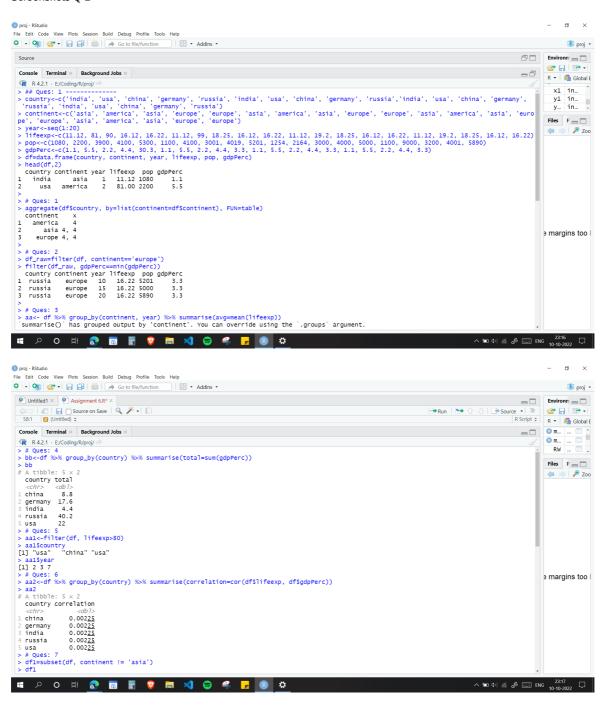
```
# Ques: 7
med=mutate(med, days_left=days_left)
filter(med, days_left>0)

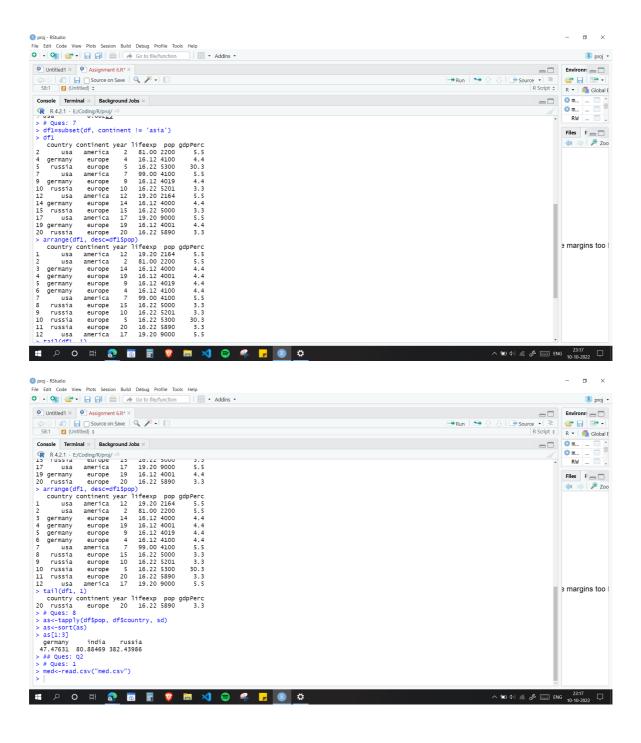
# Ques: 8
boxplot(med$days_left, data=med)
print("Medicine below 0 are expired")

# Ques: 9
mean(med$quantity_in_stock)

# Ques: 10
plot(med$manf_year, med$sales)
abline(lm(med$medID ~ med$sales))
```

▼ Screenshots Q 1





▼ Screenshots Q 2

