11.

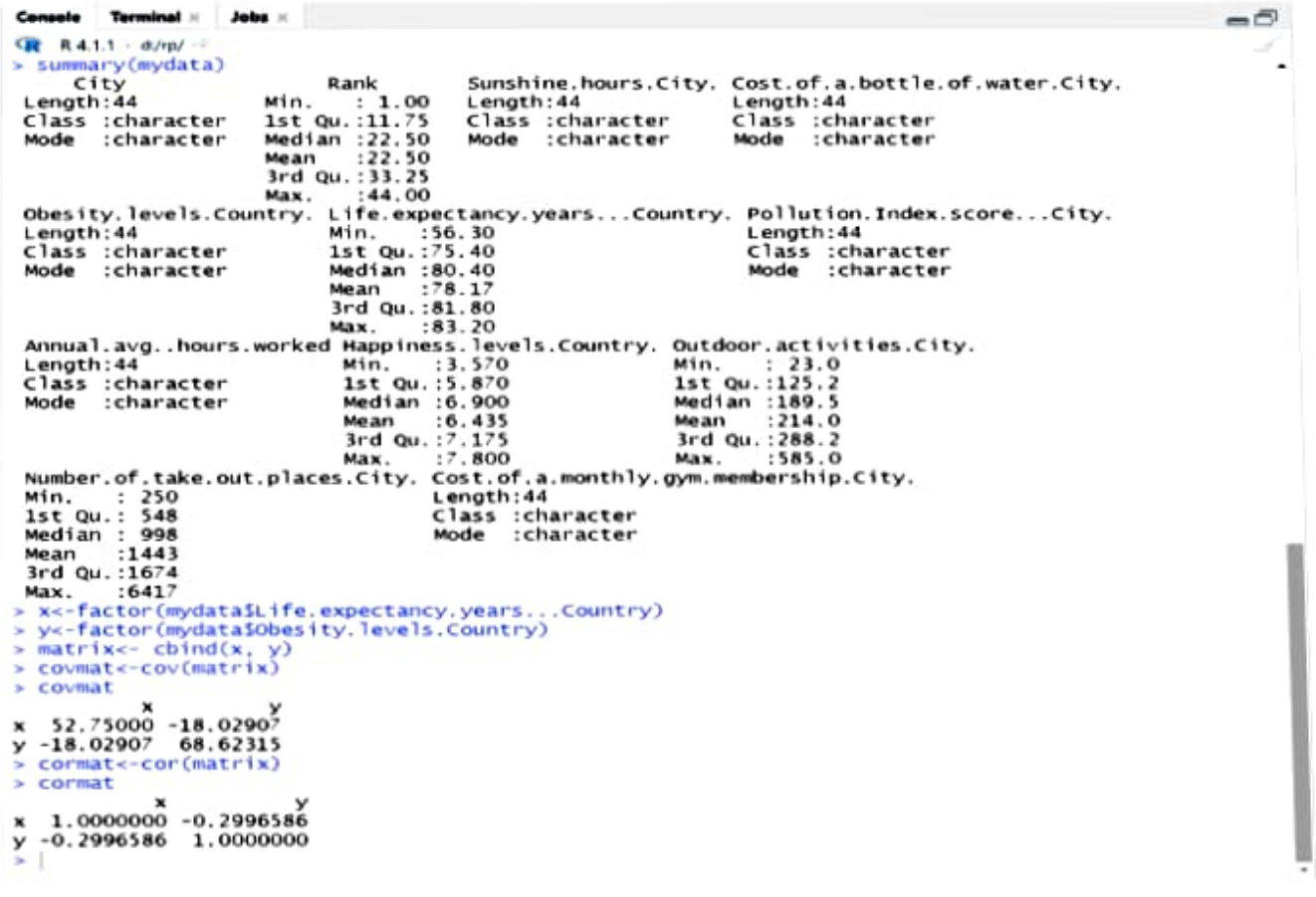
```
library(dplyr)
setwd("d:/sep")
mydata <- read.csv("healthy_lifestyle_city_2021.csv")
  Summary(mydata)
x<- factor(mydata$life expectancy.years..country)
y <- factor(mydata$Obesity.levels.Country)
  matrix <-cbind(x,y)
covmat <- cov(matrix)
covmat
cormat <-cor(matrix)
 cormat
```

From the output of above data we can conclude mean, median and mode of data set and correlation and covariance of life expectancy.years & obesity level country.

Ans-2.

Descriptive Statistics:- Here mean and meadian are visible characteristics (Descriptive)

correlation and covariance are inferential statistics


Console
Terminal
Jobs
R 4.1.1 · d:/rp/
> summary(mydata)
City
Length:44
Class :character
Mode :character
Rank
Min. : 1.00
1st Qu.:11.75
Median :22.50
Mean :22.50
3rd Qu.:33.25
Max. :44.00
Sunshine.hours.City.
Length:44
Class :character
Mode :character
Cost.of.a.bottle.of.water.City.
Length:44
Class :character
Mode :character
Obesity.levels.Country.
Length:44
Class :character
Mode :character
Life.expectancy.years...Country.
Min. :56.30
1st Qu.:75.40
Median :80.40
Mean :78.17
3rd Qu.:81.80
Max. :83.20
Pollution.Index.score...City.
Length:44
Class :character
Mode :character
Annual.avg..hours.worked
Length:44
Class :character
Mode :character
Happiness.levels.Country.
Min. :3.570
1st Qu.:5.870
Median :6.900
Mean :6.435
3rd Qu.:7.175
Max. :7.800
Outdoor.activities.City.
Min. : 23.0
1st Qu.:125.2
Median :189.5
Mean :214.0
3rd Qu.:288.2
Max. :585.0
Number.of.take.out.places.City.
Min. : 250
1st Qu.: 548
Median : 998
Mean :1443
3rd Qu.:1674
Max. :6417
Cost.of.a.monthly.gym.membership.City.
Length:44
Class :character
Mode :character
> x<-factor(mydata$Life.expectancy.years...Country)
> y<-factor(mydata$Obesity.levels.Country)
> matrix<- cbind(x, y)
> covmat<-cov(matrix)
> covmat
x y
x 52.75000 -18.02907
y -18.02907 68.62315
> cormat<-cor(matrix)
> cormat
x y
x 1.0000000 -0.2996586
y -0.2996586 1.0000000
>