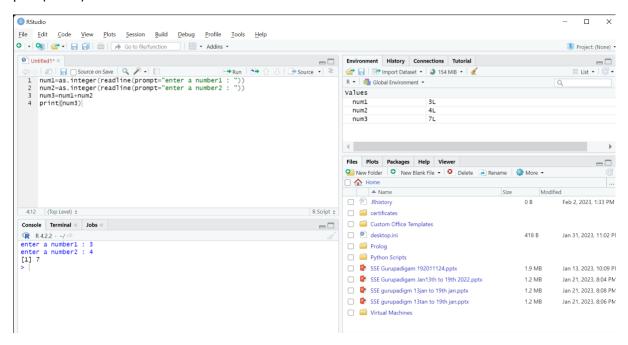
ADDITION:

num1=as.integer(readline(prompt="enter a number1 : "))

num2=as.integer(readline(prompt="enter a number2 : "))

num3=num1+num2

print(num3)



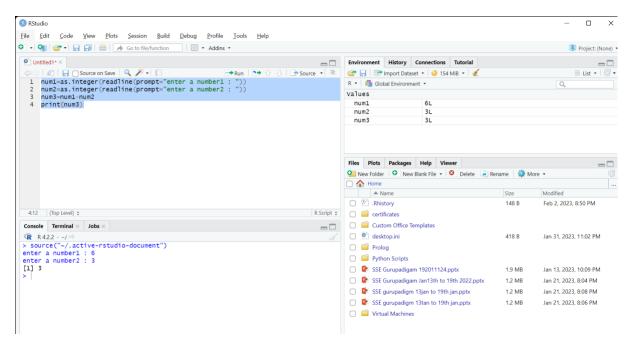
SUBTRACTION:

num1=as.integer(readline(prompt="enter a number1 : "))

num2=as.integer(readline(prompt="enter a number2 : "))

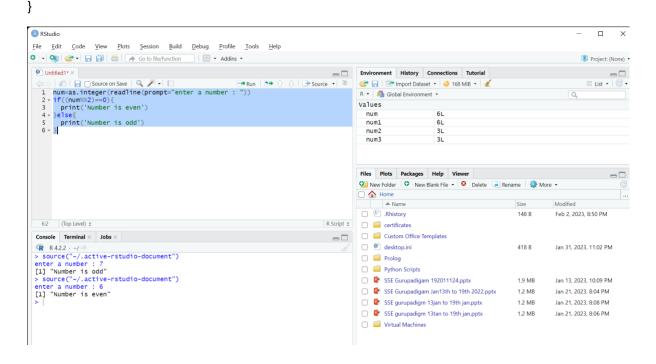
num3=num1-num2

print(num3)



ODD OR EVEN:

```
num=as.integer(readline(prompt="enter a number : "))
if((num%%2)==0){
  print('Number is even')
}else{
  print('Number is odd')
```



MEAN

names<-c("Sanju","Anshu","Gupta")

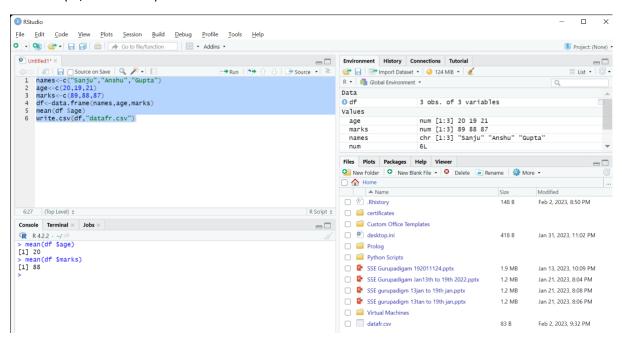
age<-c(20,19,21)

marks<-c(89,88,87)

df<-data.frame(names,age,marks)

mean(df \$age)

write.csv(df,"datafr.csv")



MEDIAN

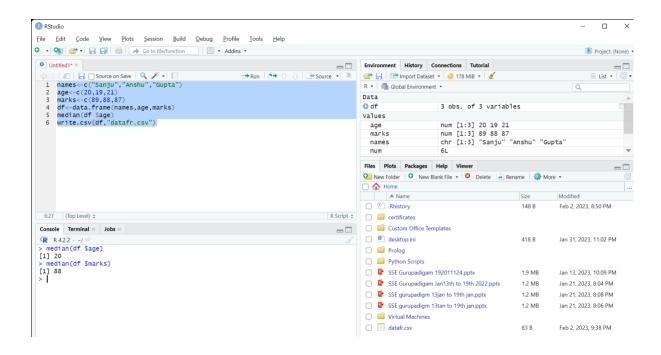
names<-c("Sanju","Anshu","Gupta")

age<-c(20,19,21)

marks<-c(89,88,87)

df<-data.frame(names,age,marks)

median(df \$age)



MODE

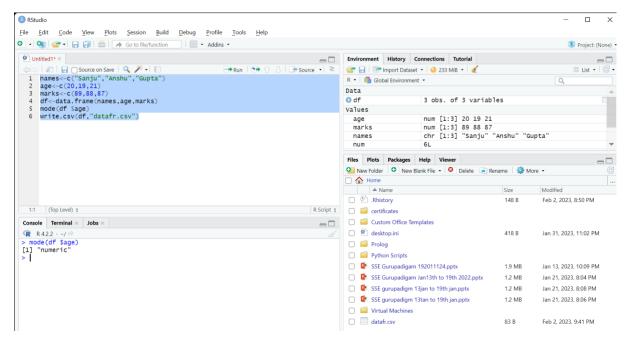
names<-c("Sanju","Anshu","Gupta")

age<-c(20,19,21)

marks<-c(89,88,87)

df<-data.frame(names,age,marks)

mode(df \$age)



SUMMARY

names<-c("Sanju","Anshu","Gupta")

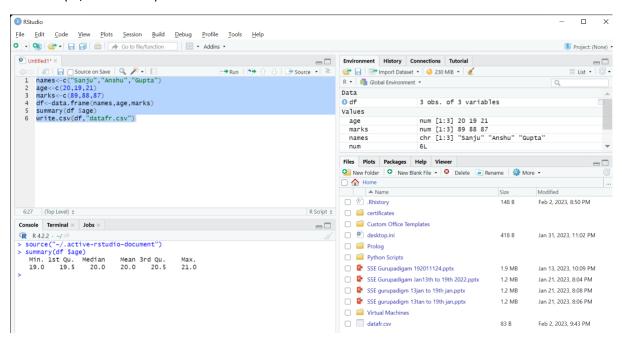
age<-c(20,19,21)

marks<-c(89,88,87)

df<-data.frame(names,age,marks)

summary(df \$age)

write.csv(df,"datafr.csv")



IQR

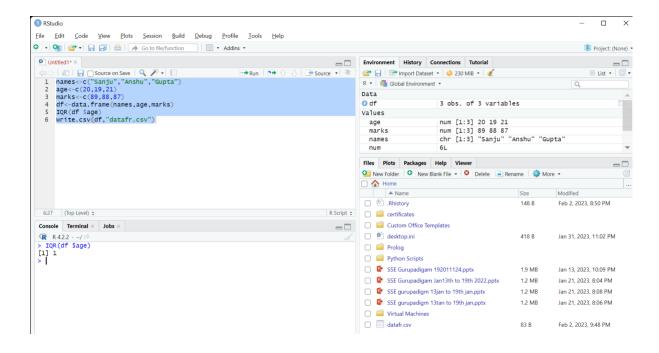
names<-c("Sanju","Anshu","Gupta")

age<-c(20,19,21)

marks<-c(89,88,87)

df<-data.frame(names,age,marks)

IQR(df \$age)



QUANTILE

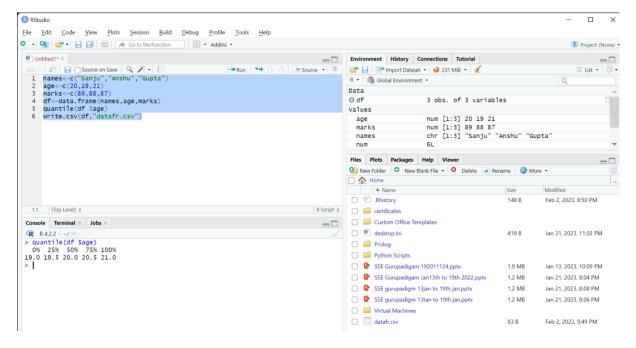
names<-c("Sanju","Anshu","Gupta")

age<-c(20,19,21)

marks<-c(89,88,87)

df<-data.frame(names,age,marks)

quantile(df \$age)



RANGE

names<-c("Sanju","Anshu","Gupta")

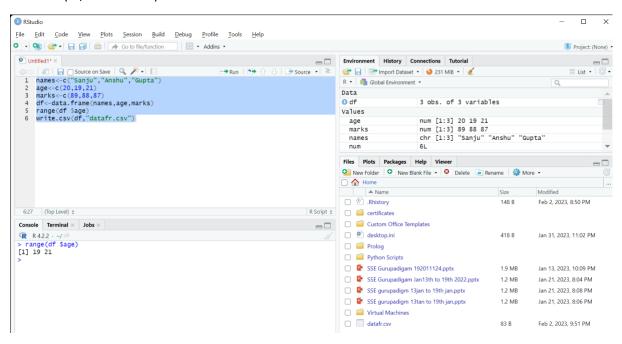
age<-c(20,19,21)

marks<-c(89,88,87)

df<-data.frame(names,age,marks)

range(df \$age)

write.csv(df,"datafr.csv")



BOX PLOT

names<-c("Sanju","Anshu","Gupta")

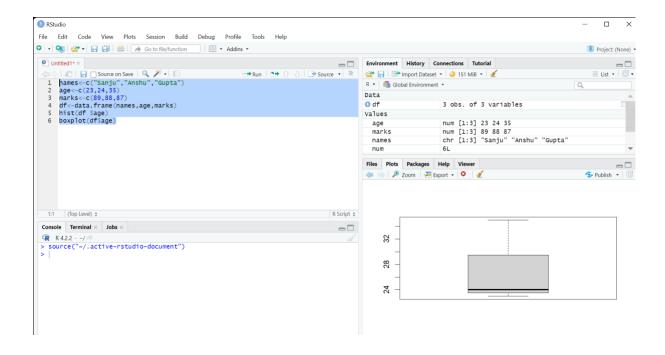
age<-c(23,24,35)

marks<-c(89,88,87)

df<-data.frame(names,age,marks)

hist(df \$age)

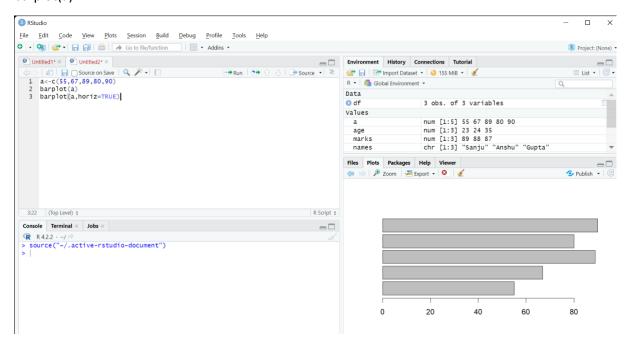
boxplot(df\$age)



BARPLOT

a<-c(55,67,89,80,90)

barplot(a)

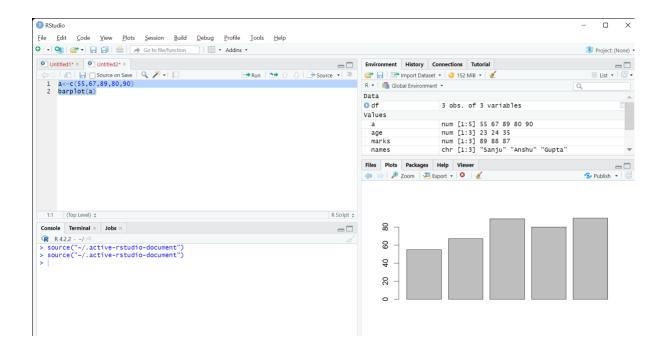


HORIZONTAL BARPLOT

a<-c(55,67,89,80,90)

barplot(a)

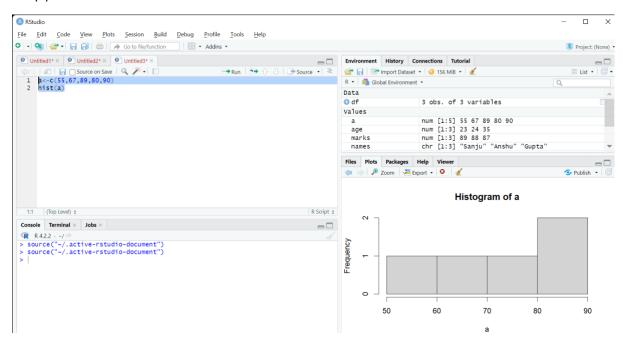
barplot(a,horiz=TRUE)



HISTOGRAM

a<-c(55,67,89,80,90)

hist(a)



SCATTER PLOT

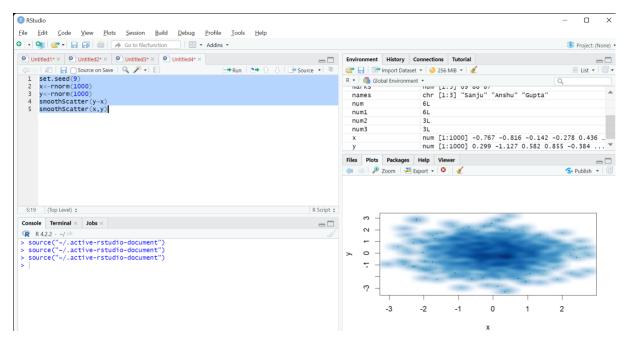
set.seed(9)

x<-rnorm(1000)

y<-rnorm(1000)

smoothScatter(y~x)

smoothScatter(x,y)

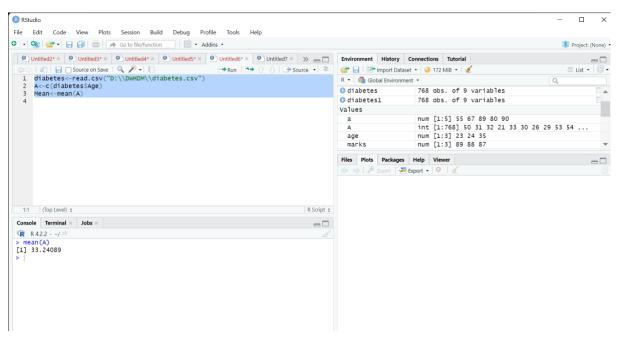


MEAN NORMALIZATION

diabetes<-read.csv("D:\\DWHDM\\diabetes.csv")

A<-c(diabetes\$Age)

Mean<-mean(A)

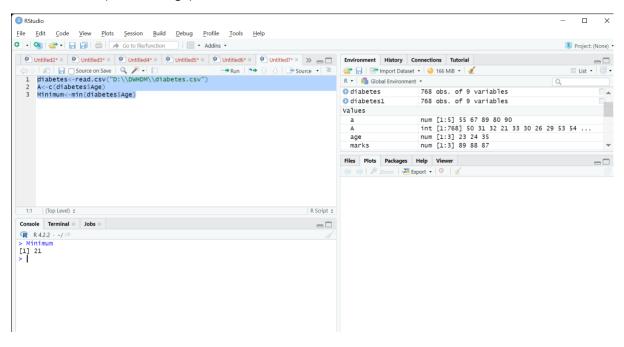


MINIMUM NORMALIZATION

diabetes<-read.csv("D:\\DWHDM\\diabetes.csv")

A<-c(diabetes\$Age)

Minimum<-min(diabetes\$Age)

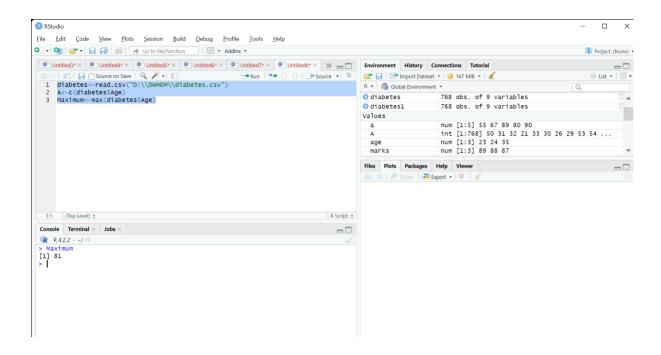


MAXIMUM NORMALIZATION

diabetes<-read.csv("D:\\DWHDM\\diabetes.csv")

A<-c(diabetes\$Age)

Maximum<-max(diabetes\$Age)

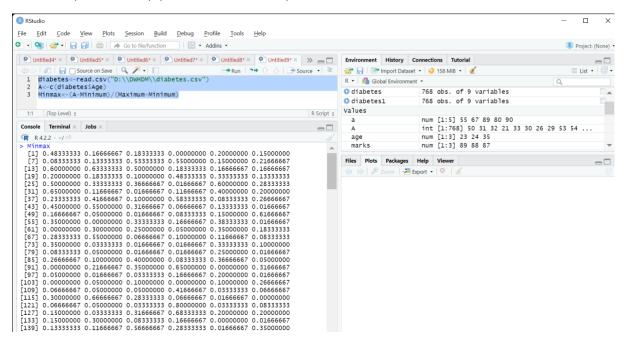


MINMAX NORMALIZATION

diabetes<-read.csv("D:\\DWHDM\\diabetes.csv")

A<-c(diabetes\$Age)

Minmax<-(A-Minimum)/(Maximum-Minimum)



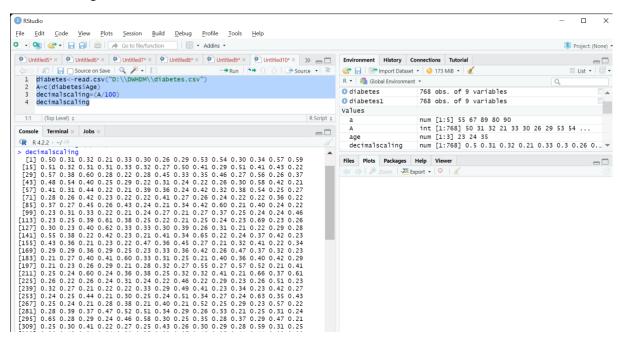
DECIMAL SCALING NORMALIZATION

diabetes<-read.csv("D:\\DWHDM\\diabetes.csv")

A=c(diabetes\$Age)

decimalscaling=(A/100)

decimalscaling

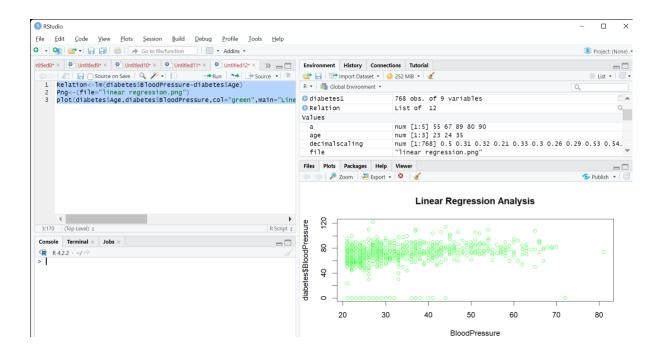


LINEAR REGRESSION

Relation<-Im(diabetes\$BloodPressure~diabetes\$Age)

Png<-(file="linear regression.png")

plot(diabetes\$Age,diabetes\$BloodPressure,col="green",main="Linear Regression Analysis",abline=(lm(diabetes\$BloodPressure~diabetes\$Age)),xlab="BloodPressure",vlanb="Age")



MULTIPLE REGRESSION

Input<-diabetes[c("Age","BloodPressure","Glucose")]
model<-lm(Age~BloodPressure+Glucose,dat=input)
print(model)