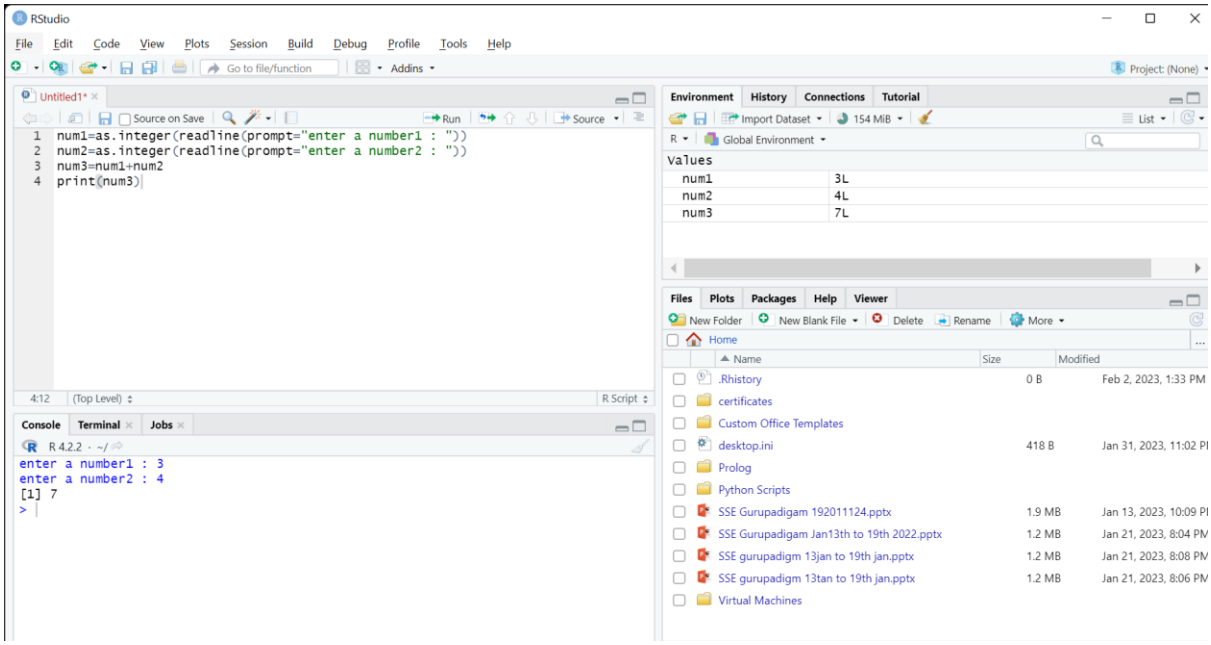
**ADDITION:**

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

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

num3=num1+num2

print(num3)



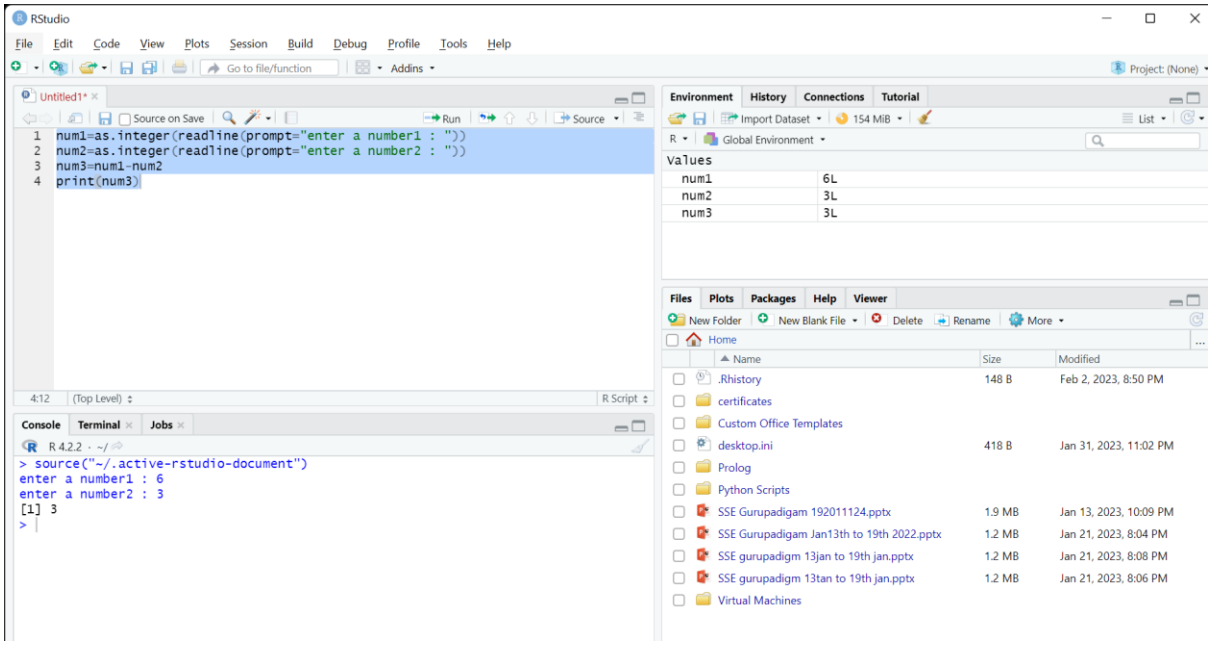

**SUBTRACTION:**

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

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

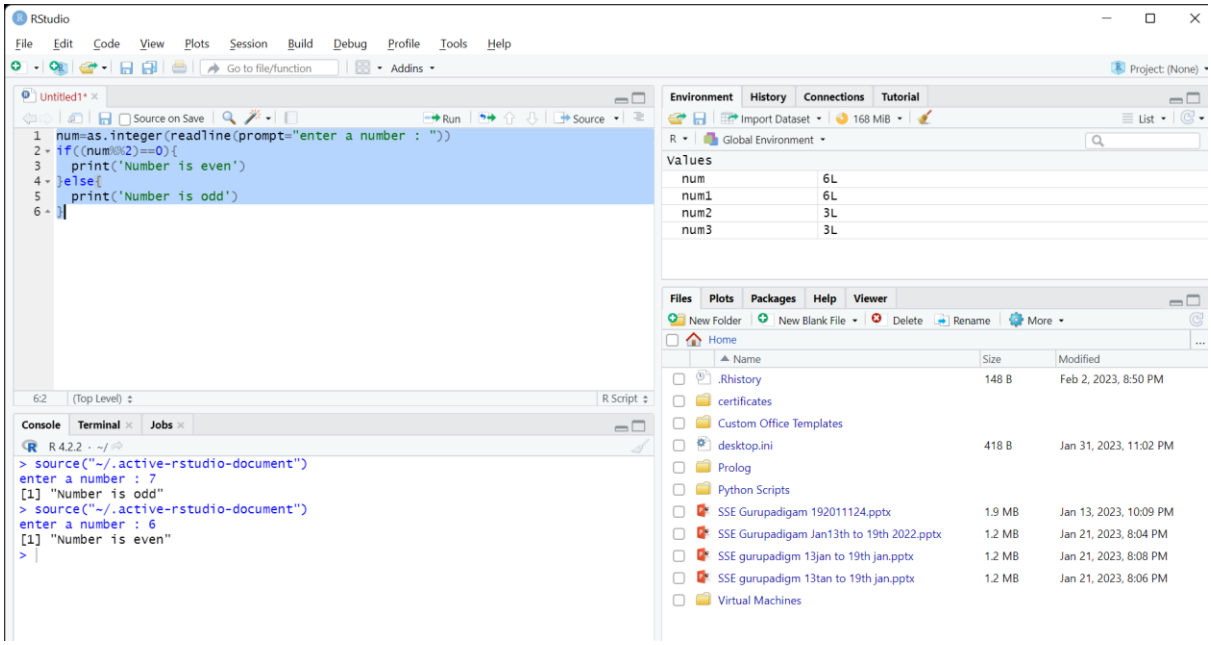
num3=num1-num2

print(num3)



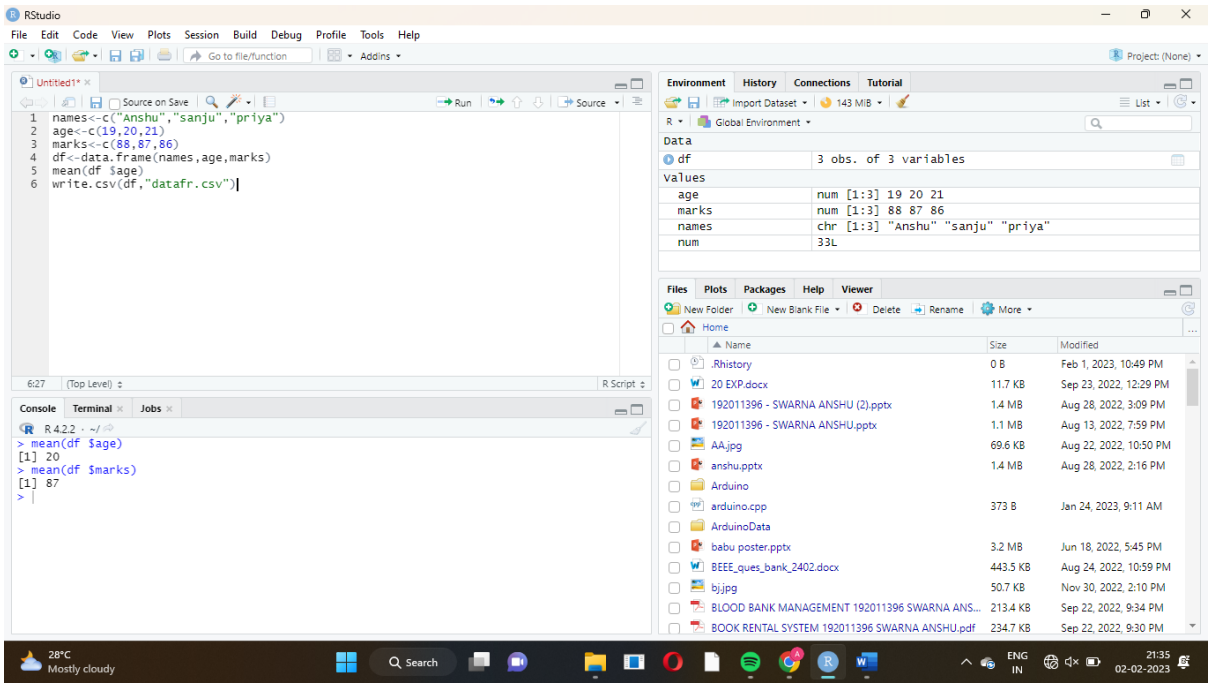

**ODD OR EVEN:**

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



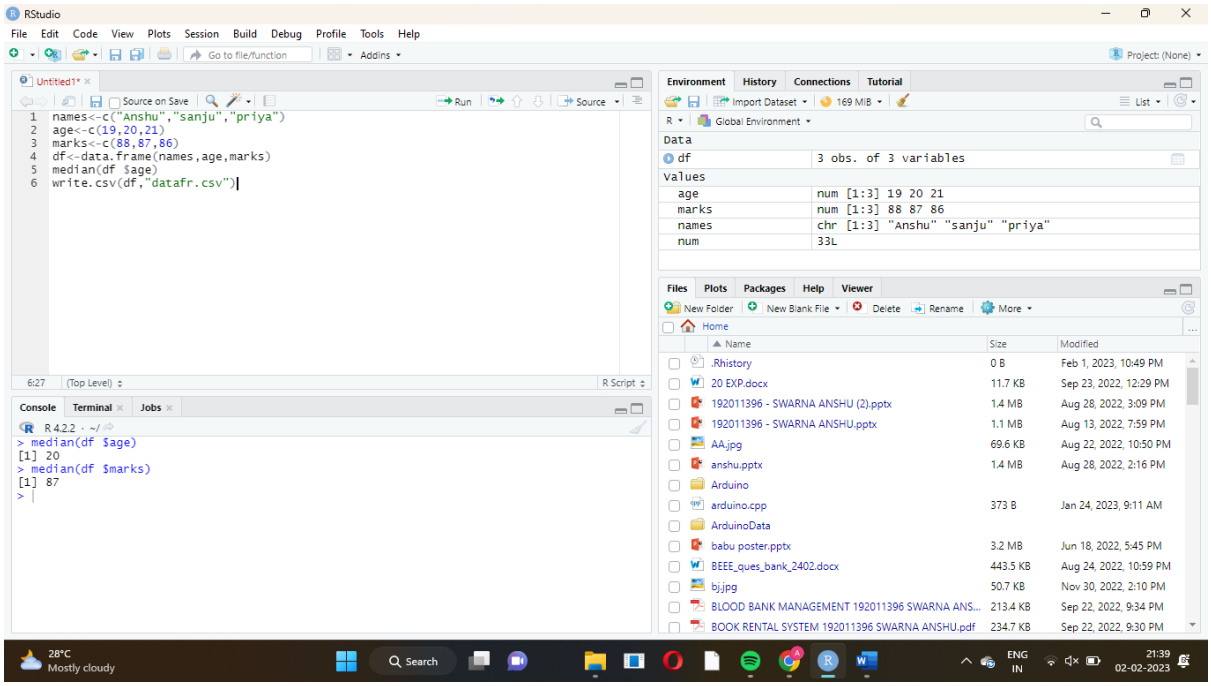
**MEAN**

```
names<-c("Anshu","sanju","priya")
age<-c(19,20,21)
marks<-c(88,87,86)
df<-data.frame(names,age,marks)
mean(df $age)
write.csv(df,"datafr.csv")
```




**MEDIAN**

```
names<-c("Anshu”,sanju”,”priya")
age<-c(20,19,21)
marks<-c(89,88,87)
df<-data.frame(names,age,marks)
median(df $age)
write.csv(df,"datafr.csv")
```




## MODE

names<-c("Anshu","sanju","priya")

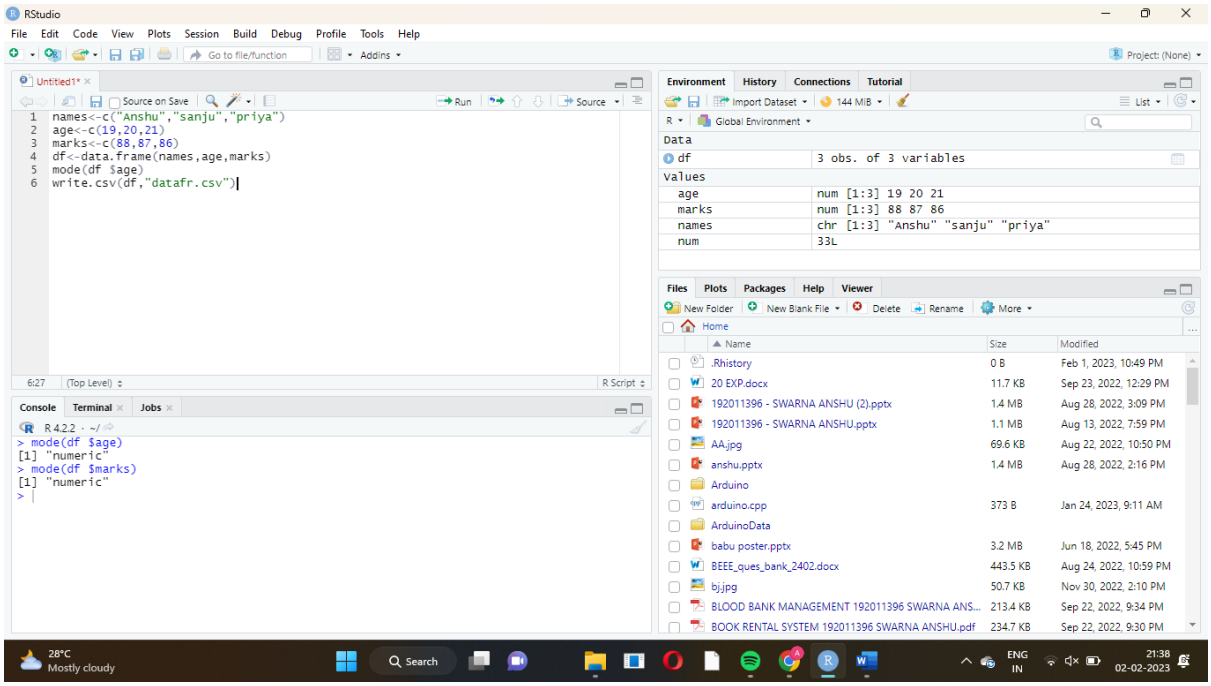
age<-c(19,20,21)

marks<-c(89,88,87)

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

mode(df $age)

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



**SUMMARY**

names<-c("Anshu","sanju","priya")

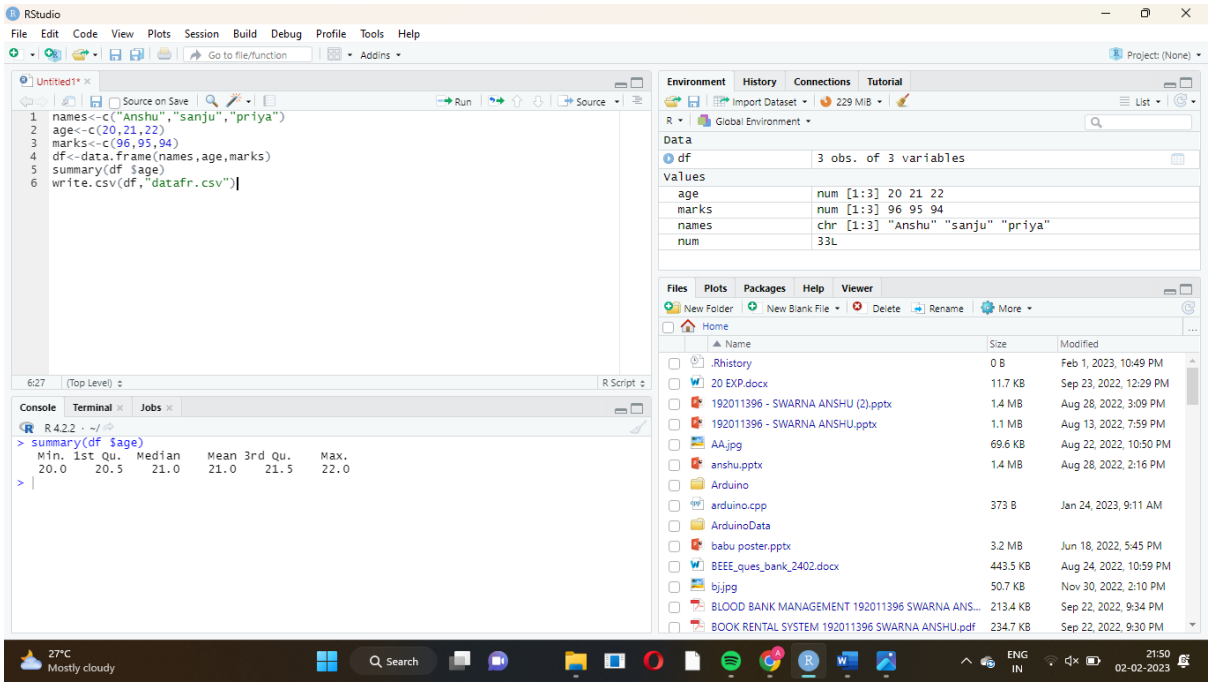
age<-c(20,21,22)

marks<-c(96,95,94)

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

summary(df $age)

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




**IQR**

names<-c("Anshu","sanju","priya")

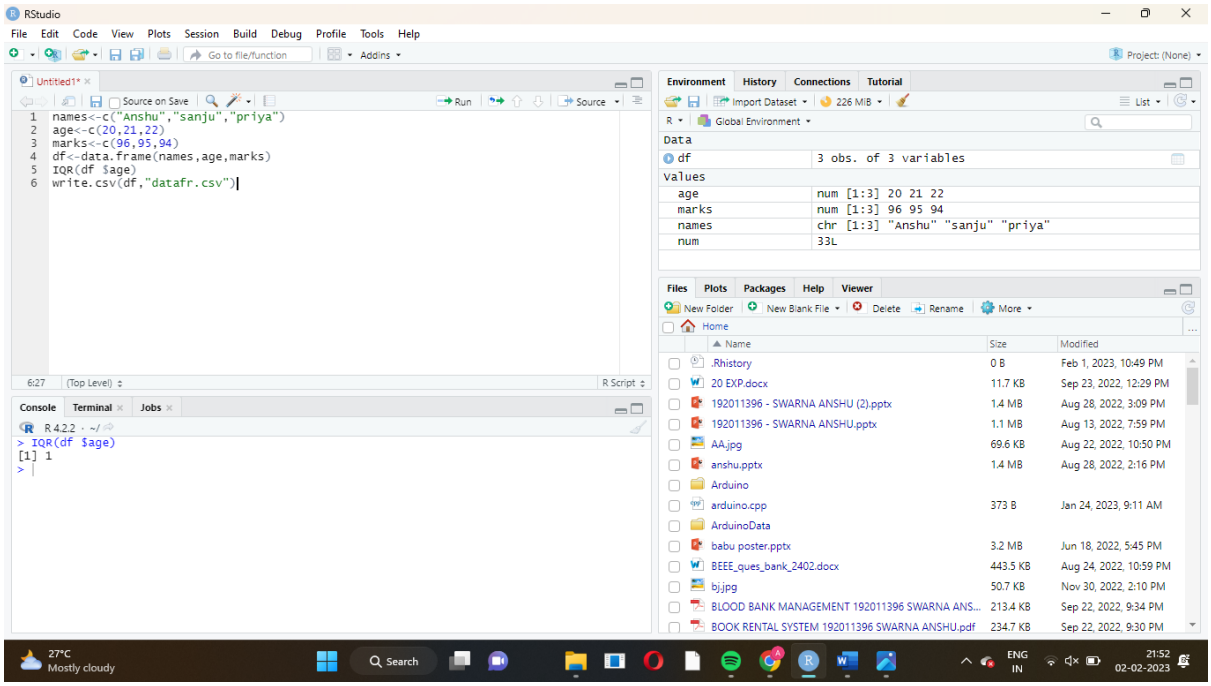
age<-c(20,21,22)

marks<-c(96,95,94)

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

IQR(df $age)

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




## QUANTILE

names<-c("Anshu","Bhargav","sadik")

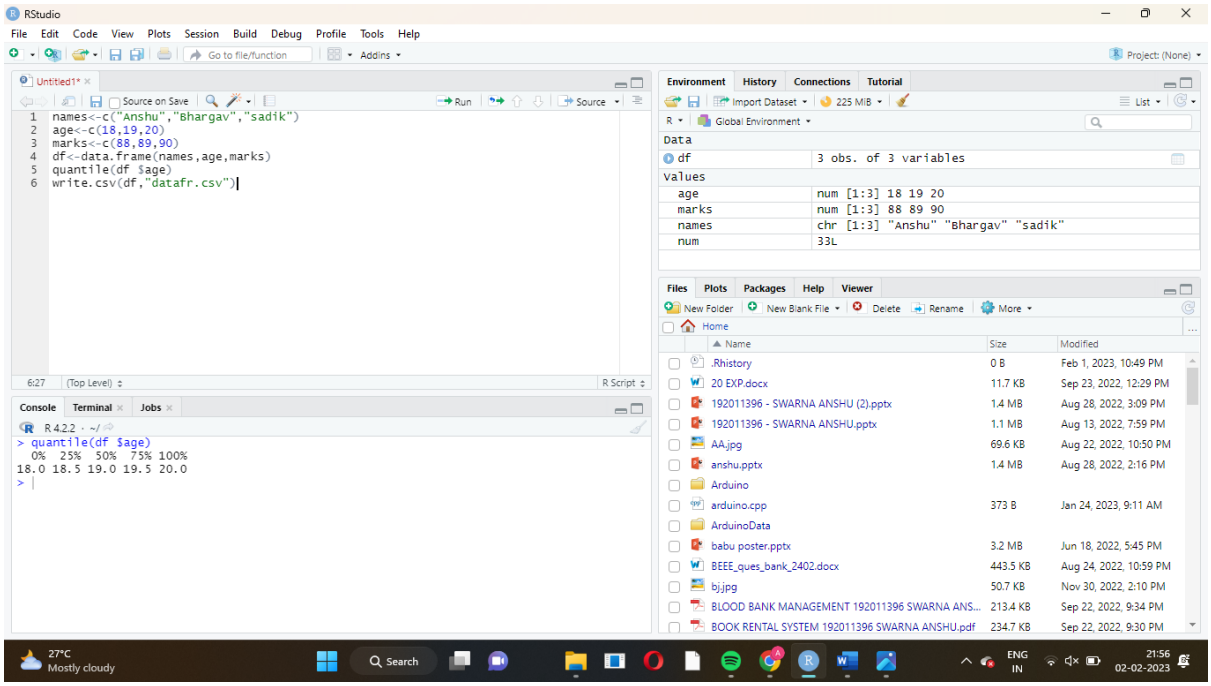
age<-c(18,19,20)

marks<-c(88,89,90)

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

quantile(df $age)

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



**RANGE**

names<-c("Anshu","Bhargav","Sadik")

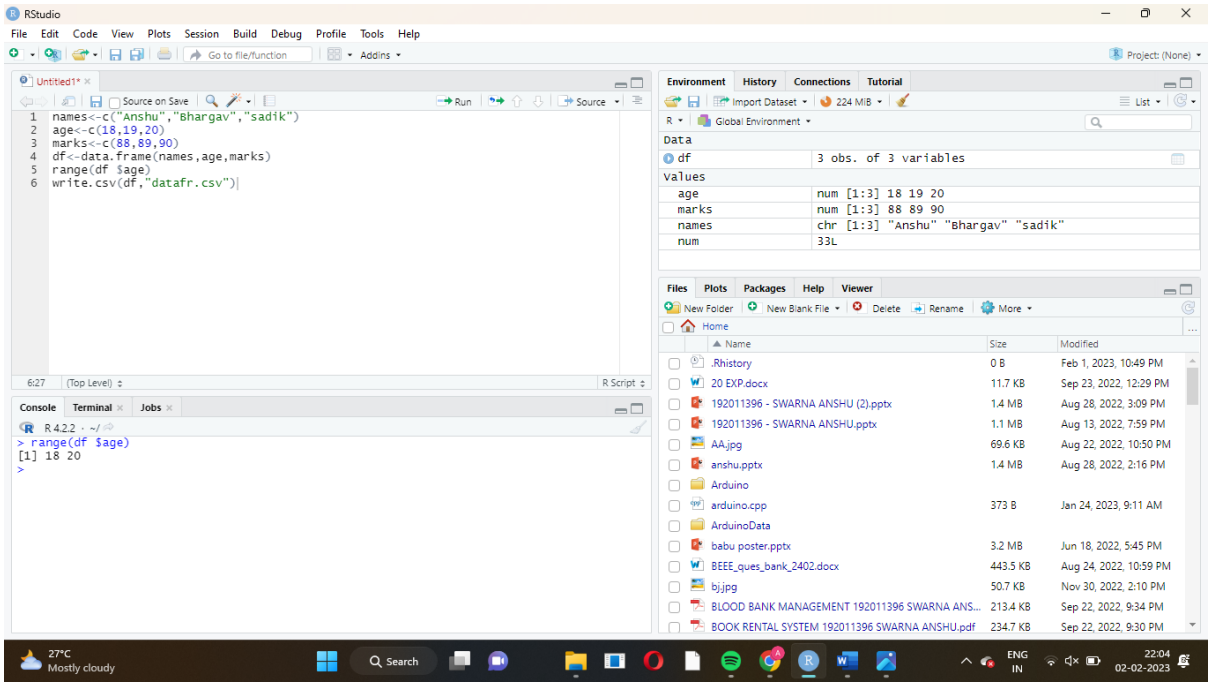
age<-c(18,19,20)

marks<-c(88,89,90)

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

range(df $age)

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




**BOX PLOT**

names<-c("Anshu","smriti","sagar")

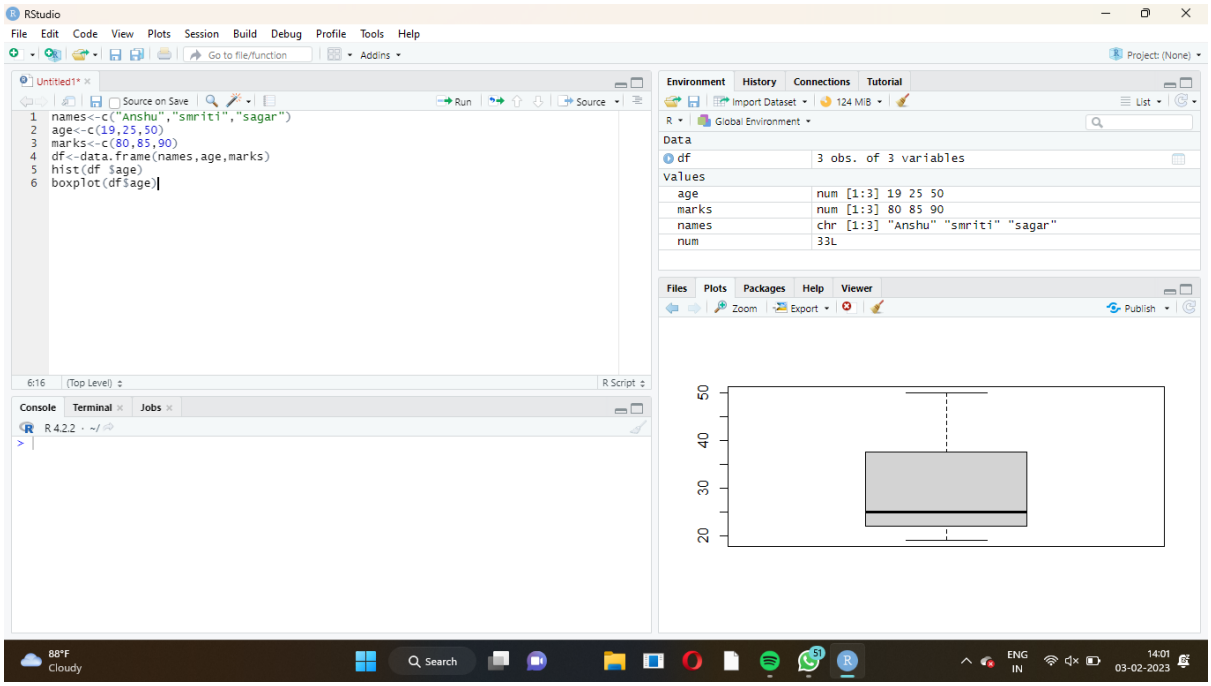
age<-c(19,25,50)

marks<-c(80,85,90)

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

hist(df $age)

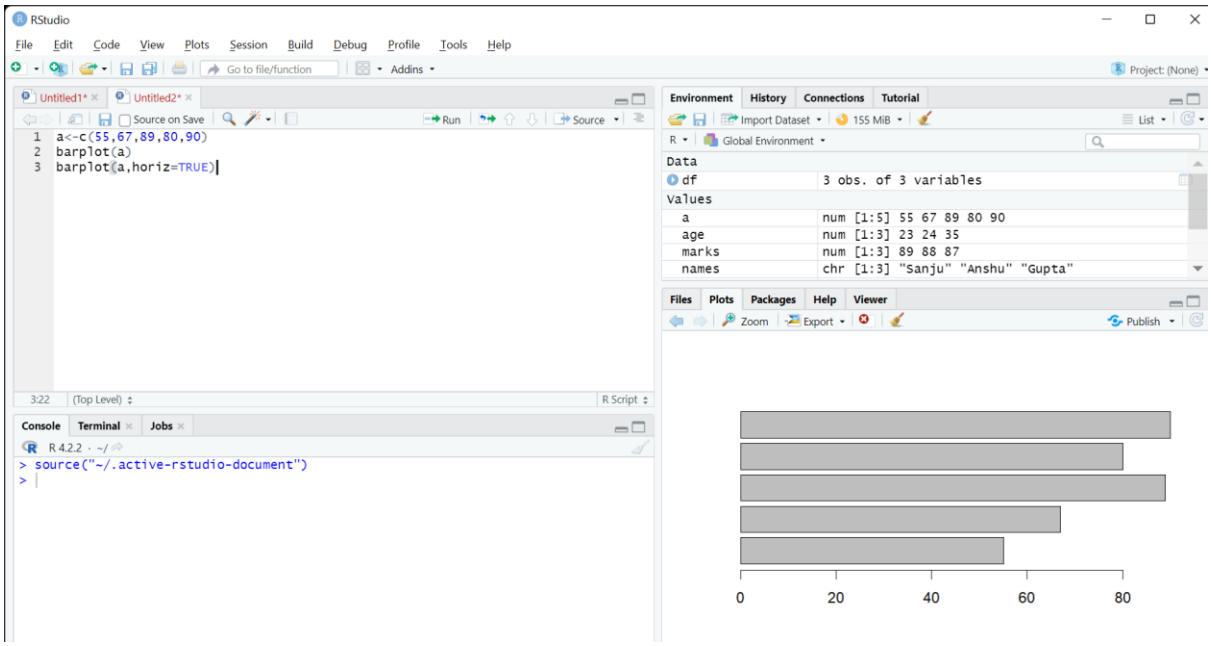
boxplot(df$age)




**BARPLOT**

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

barplot(a)

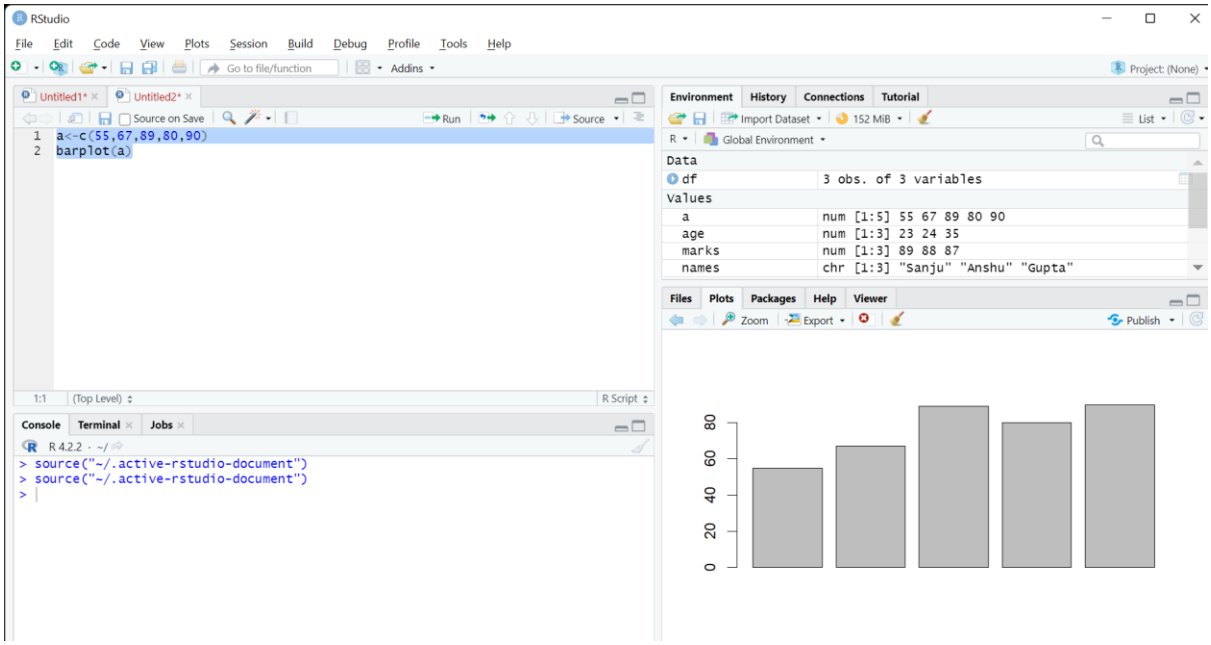



**HORIZONTAL BARPLOT**

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

barplot(a)

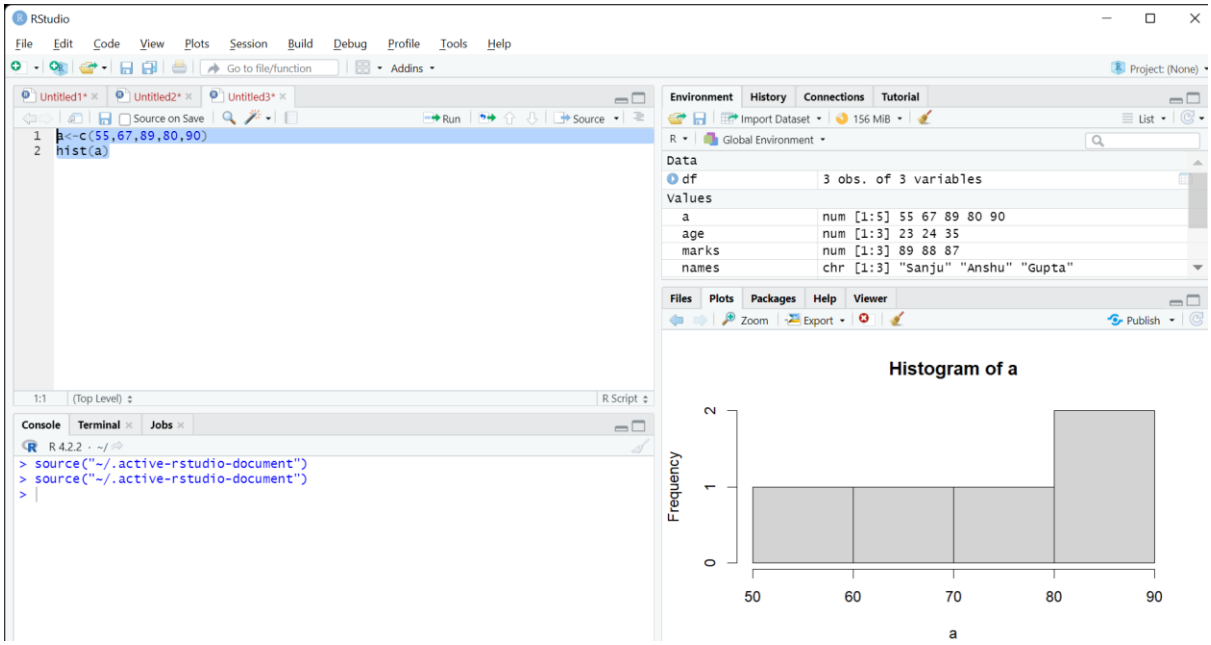
barplot(a,horiz=TRUE)




**HISTOGRAM**

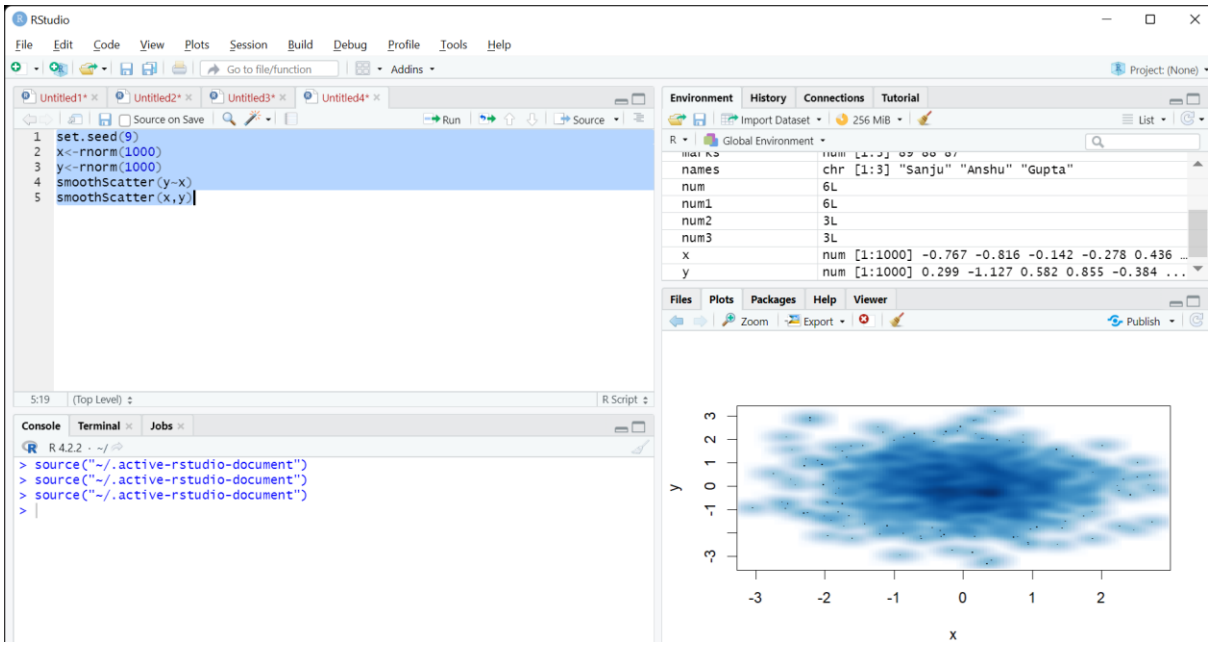
a<-c(55,67,89,80,90)

hist(a)



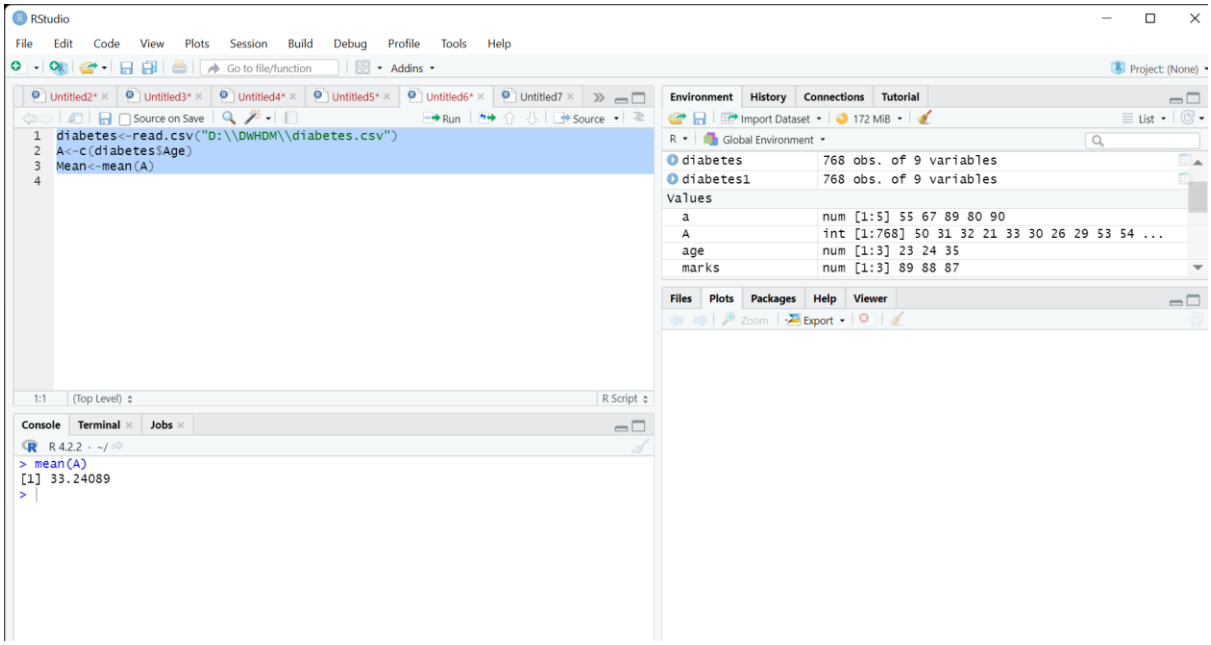
**SCATTER PLOT**

```
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)
```

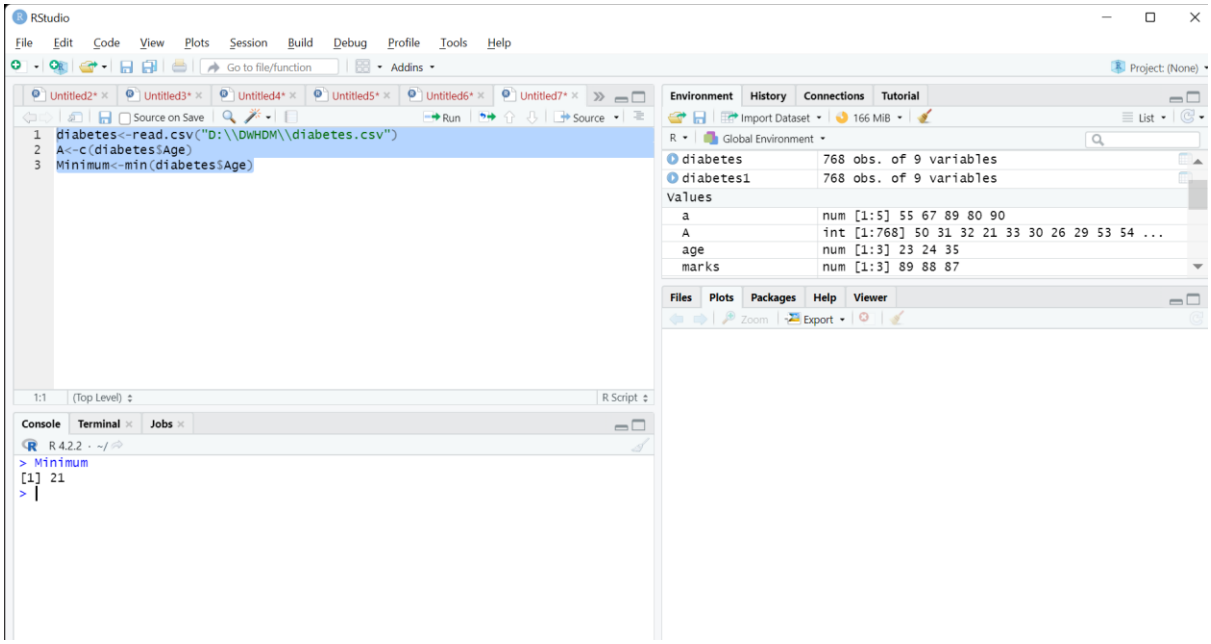



**MINIMUM NORMALIZATION**

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

A<-c(diabetes$Age)

Minimum<-min(diabetes$Age)

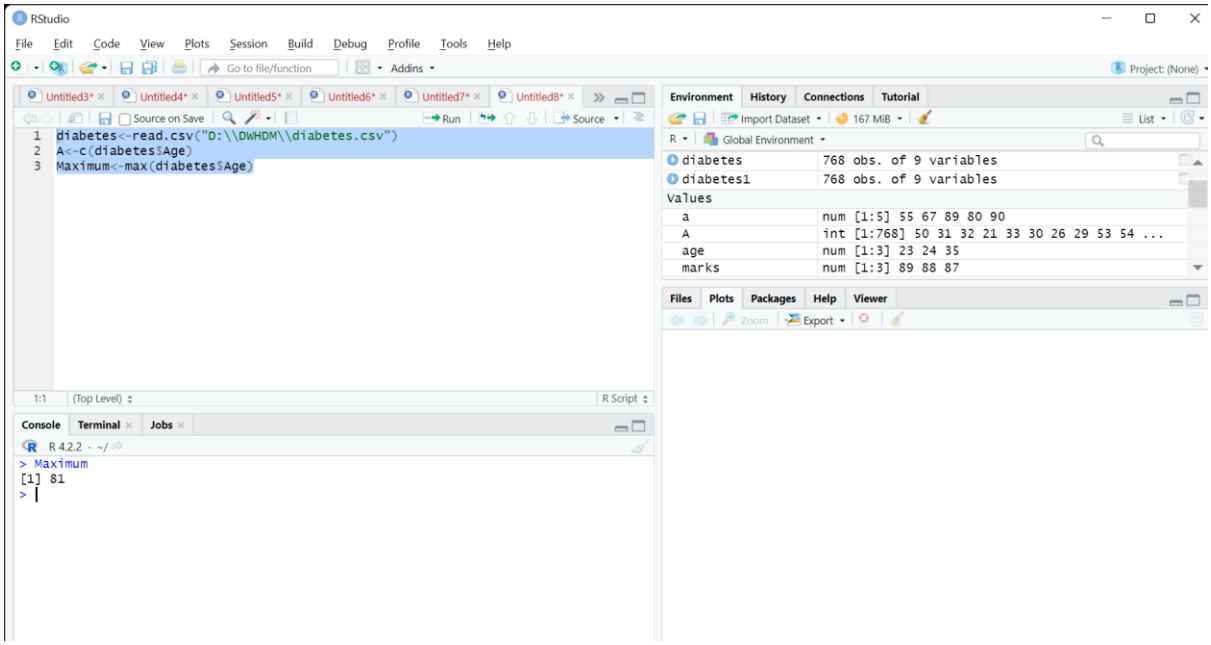



**MAXIMUM NORMALIZATION**

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

A<-c(diabetes$Age)

Maximum<-max(diabetes$Age)

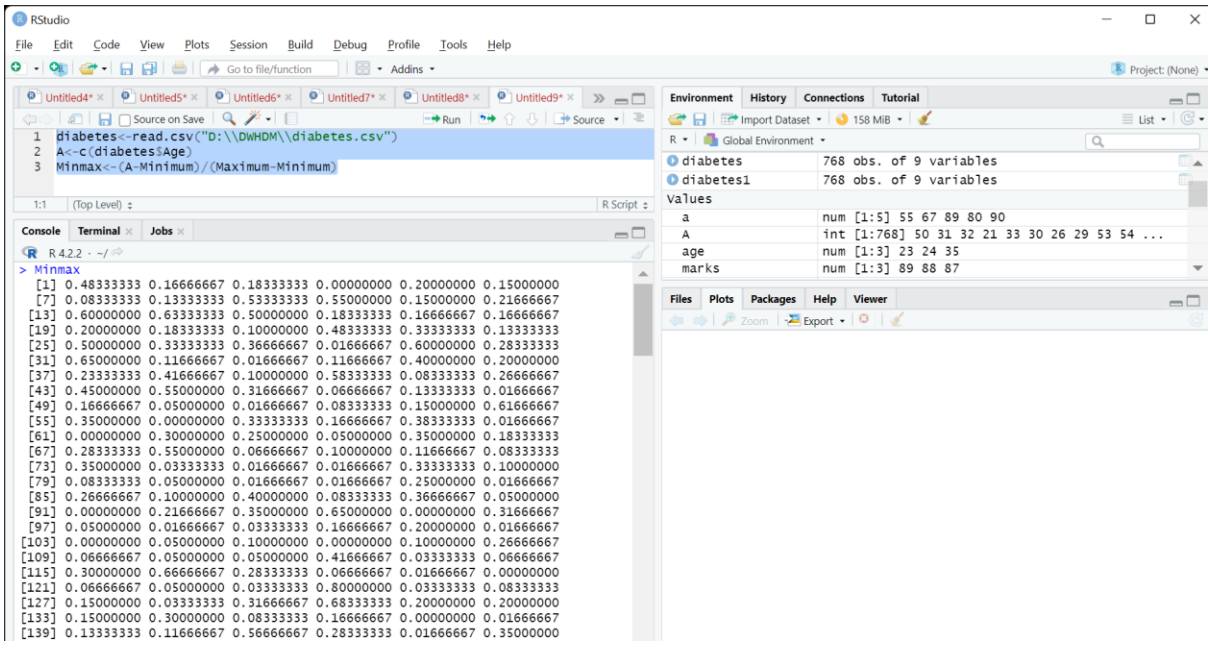



**MINMAX NORMALIZATION**

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

A<-c(diabetes$Age)

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



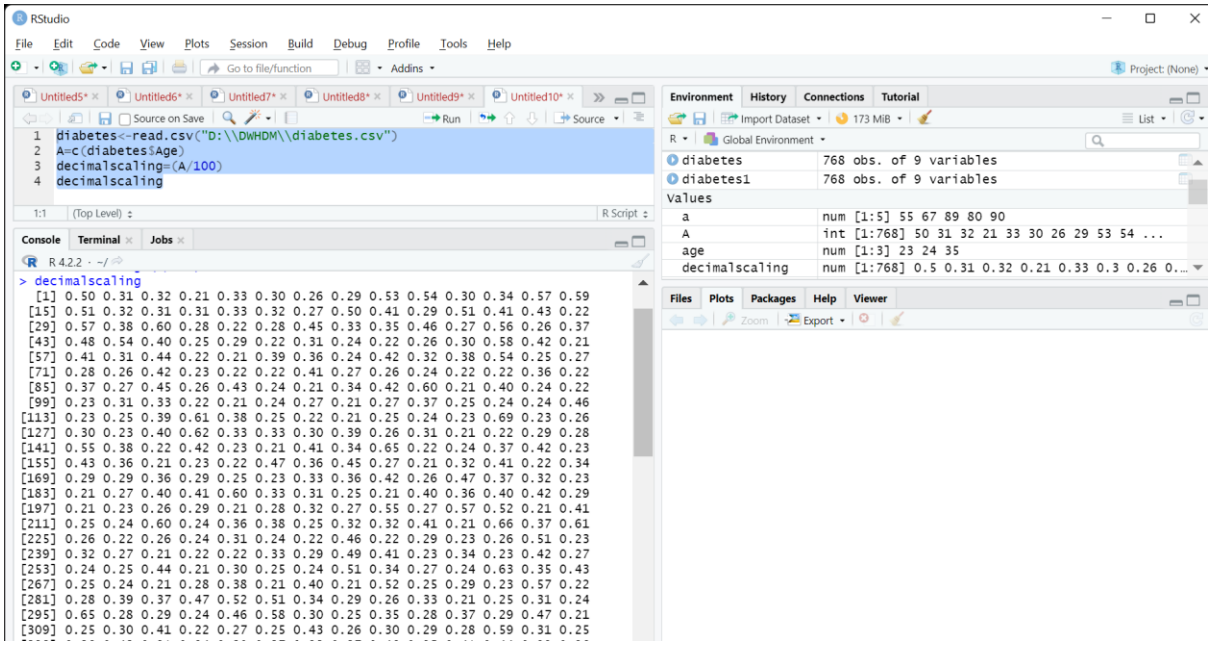
## DECIMAL SCALING NORMALIZATION

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

A=c(diabetes$Age)

decimalscaling=(A/100)

decimalscaling

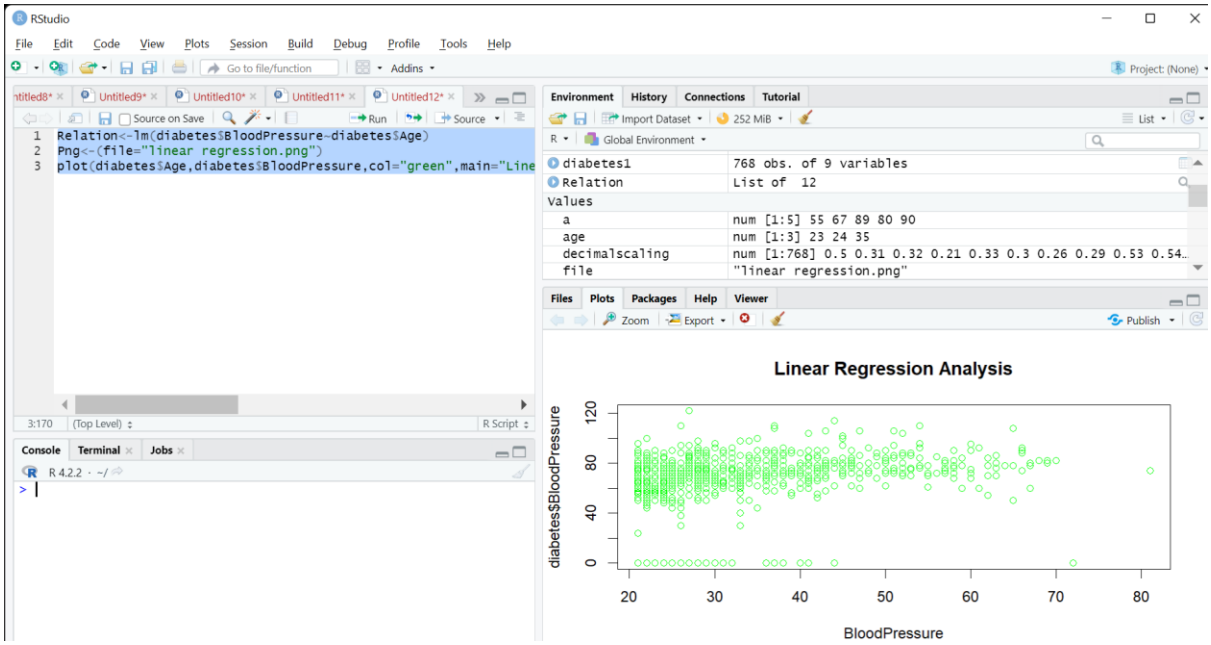



## LINEAR REGRESSION

Relation<-lm(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)
```