# R programming

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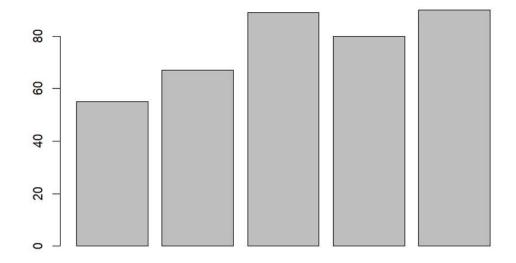
# Bar plot:

# Syntax:

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

barplot(a)

# output:



# **Coefficient corelation**

AIM: To implement coefficient corelation using R studio

#### SYNTAX:

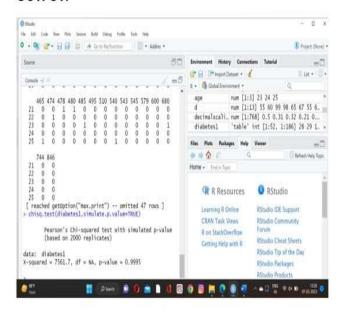
diabetes1<-read.csv("C:/Users/Lenovo/Downloads/diabetes.csv")

diabetes1<-table(diabetes1 \$Age,diabetes1 \$Insulin)

diabetes1

chisq.test(diabetes1,simulate.p.value=TRUE)\

### **OUTPUT:**



.

# Decimal scaling

Aim: to implement and design decimal scaling in r tool.

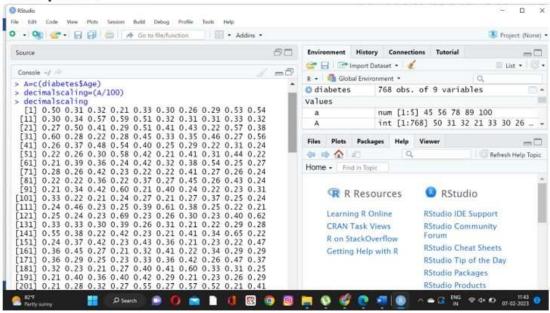
Formula:

A/100

#### Syntax:

diabetes=read.csv("C:/Users/Lenovo/Downloads/diabetes.csv")
A=c(diabetes\$Age)
decimalscaling=(A/100)
decimalscaling

# output:



Aim: To implement five summary data using r tool

Formula:

Minimum

Lower quartile

Median

Upper quartile

Maximum

Syntax:

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

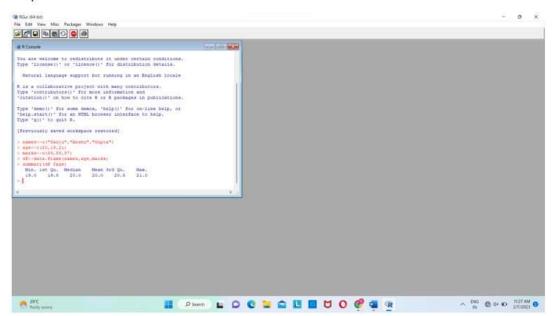
age<-c (20,19,21)

marks<-c (89,88,87)

d f<-data. Frame (names, age, marks)

summary (d f \$age)

#### Output:



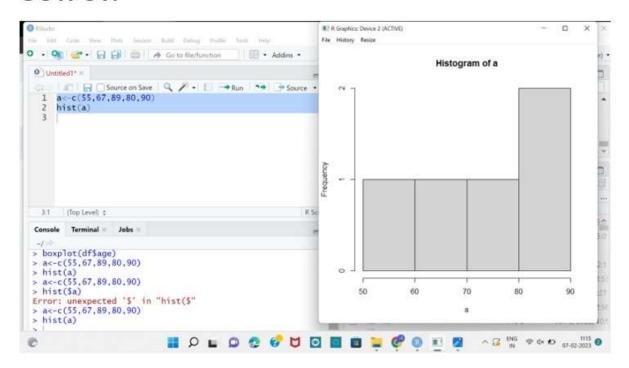
# HISTOGRAM

AIM: To implement histogram in R Studio

# **SYNTAX:**

A<-c(12,45,67,89)

hist(A)



AIM: The aim is to implement linear regression using RStudio.

### Syntax:

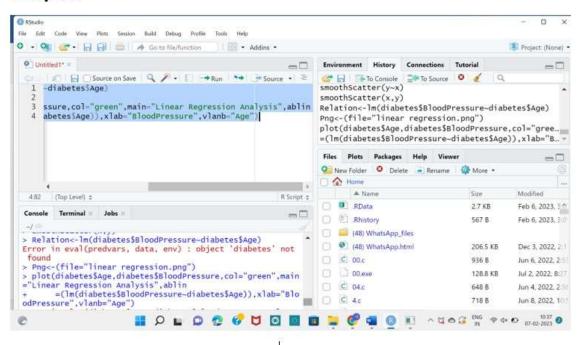
Relation<-lm(diabetes\$BloodPressure~diabetes\$Age)

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

plot(diabetes\$Age,diabetes\$BloodPressure,col="green",main
="Linear Regression Analysis",ablin

=(lm(diabetes\$BloodPressure~diabetes\$Age)<u>),xlab</u>="BloodPressure",vlanb="Age")

#### Output:



# **MEAN**

Aim: To implement mean using r tool

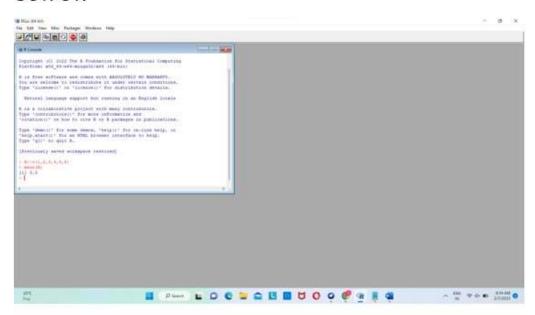
Formula:

sum of observations/no. of observations

syntax:

R<c()

Mean(R)



#### AIM: TO IMPLEMENT MEDIAN IN RSTUDIO

#### SYNTAX:

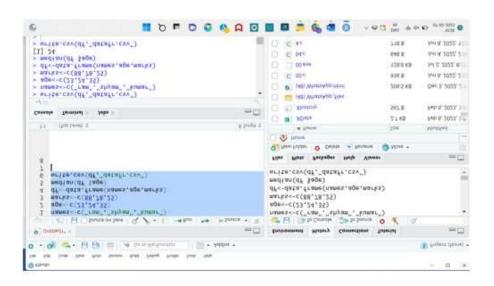
names<-c("ram","shyam","kumar")

age<-c(23,24,35)

marks<-c(88,78,25)

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

median(df \$age)



### AIM: TO IMPLEMENT MODE IN RSTUDIO

#### SYNTAX:

names<-c("ram","shyam","kumar")

age<-c(23,24,35)

marks<-c(88,78,25)

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

mode(df \$age)

