Import from Web Storage – Logistic Regression

mydata<- read.csv("https://stats.idre.ucla.edu/stat/data/binary.csv") //mydata$rank<-factor(mydata$rank)//mylogit<-glm (admit~gre+gpa+rank,data=mydata,family="binomial") //summary(mylogit)//

Decision tree – Reading Skills

library(party)//input.dat <- readingSkills[c(1:105),] //png(file = "decision_tree1.png")//output.tree<- ctree(nativeSpeaker ~ age + shoeSize + score, data = input.dat) //plot(output.tree)//

Use iris dataset and K-means Clusteringalgorithm

set.seed(20)//irisCluster<- kmeans(iris[, 3:4], 3, nstart = 20)//irisCluster//irisCluster$cluster<-as.factor(irisCluster$cluster)//ggplot(iris, aes(Petal.Length, Petal.Width, color = irisCluster$cluster)) + geom_point()//

ANOVA - iris

install.packages("datasets")//install.packages("qtlcharts")//library(datasets)//library(qtlcharts)//data(iris)//iris$Species<-NULL//iplotCorr(iris, reorder=TRUE)//

Calculator

add <- function(x, y) { return(x + y}}//subtract <- function(x, y) { return(x - y)}//multiply <- function(x, y) { return(x * y)}//divide <- function(x, y) { return(x / y)}//print("1.Add")// print("2.Subtract")//print("3.Multiply")// print("4.Divide")//choice = as.integer(readline(prompt="Enter choice[1/2/3/4]: "))// num1 = as.integer(readline(prompt="Enter first number: ")) //num2 = as.integer(readline(prompt="Enter second number: "))// operator <- switch(choice,"+","-","*","/")//result <- switch(choice, add(num1, num2), subtract(num1, num2),multiply(num1, num2), divide(num1, num2))//print(paste(num1, operator, num2, "=", result))//

Arithmetic – without objects

25+32//36-15//145*8 //365/7//

Arithmetic -with objects

A=4/B=2/c=A+B/c // A=5/B=2/c=A-B/c // A=10/B=2/c=A*B/c // A=10/B=2/c=A/B/c

Descriptive Statistics
data(mtcars)//str(mtcars)//dim(mtcars)//names(mtcars)//summary(mtcars)//quantile(x)//quantile(mtcars$mpg)//quantile(mtcars$wt, c(.2, .4, .8)) //var(mtcars$wt)//

Subset() and Aggregate()
subset(iris,iris$Sepal.Length>7)

data(iris)//agg_mean = aggregate(iris[,1:4], by=list(iris$Species),FUN=mean) //agg_mean//

Cov mpg & gear || all variables
cov(mtcars$mpg,mtcars$gear)//cov(mtcars[,1:11])

Cor mpg & gear || all variables
cor(mtcars$mpg,mtcars$gear)// cor(mtcars[,1:11])

Boxplot
library(ggplot2)//input <- mtcars[,c('mpg','cyl')]//boxplot(mpg ~ cyl, data = mtcars, xlab = "number of cylinders", ylab = "miles per gallon", main = "mileage data")//dev.off()//

Scatter plot

library(ggplot2)//input<-mtcars[,c('cyl','mpg')]//plot(x = input$cyl, y = input$mpg,xlab = "Cylinders",
ylab = "Miles per gallon",xlim = c(4, 8.5),ylim = c(10, 45),main = "Weight vs Mileage")//

Histogram
summary(iris)//par (mfrow - c(3,1))//hist (iris$Petal.Length)//
hist (iris$petal.width)//hist (iris$epal.width)

Bar Chart
```
par(mfrow = c(4,1))//barplot(iris$Sepal.Width,main= "Sepal Width")//
 barplot(iris$Sepal.Length, main= "Sepal Length")//
 barplot(iris$Petal.Length,main= "Petal Length")
//barplot (iris$petal.width, main= "Petal width")
```

Pie Chart
```
vec< - iris$ Species//vec_data<-data.frame (table (vec))//cols<-
c("red","green","blue")//per_label<-round(100*vec-data$Freq / sum
(vec_data$Freq), 1)//pielabel= paste(per_label, "%", sep=" ")
pie( vec_data$Freq, labels = pielabel, col= cols)
legend("topright",c("setosa", "versicolor", "virginica"), fill-cels, cex = 0.8)
```

Cor relation Plot-overview-iris
```
d <- data.frame(x1=rnorm(10),//x2=rnorm(10),//x3=rnorm(10))//
M <- cor(d) //install.packages("corrplot")//library('corrplot')
corrplot(M, method = "square")// set.seed(1)//
x <- matrix(rnorm(20), nrow=5, ncol=4)//y <- matrix(rnorm(15), nrow=5,
ncol=3)//COR <- cor(x,y)//COR//
image(x=seq(dim(x)[2]), y=seq(dim(y)[2]), z=COR, xlab="x column", ylab="y
column")//text(expand.grid(x=seq(dim(x)[2]), y=seq(dim(y)[2])),
labels=round(c(COR),2))//install.packages("datasets")//
install.packages("qtlcharts")//library(datasets)//library(qtlcharts)//
data(iris)//iris$Species<-NULL//iplotCorr(iris, reorder=TRUE)//
```

Reading CSV file //Sheet<-read.csv("file path")//print (Sheet)

Reading excel sheet// install.packages("xlsx")//Sheet<-read.xlsx("file path")//print (Sheet)

Reading From web link

mydata <- read.csv("https://stats.idre.ucla.edu/stat/data/binary.csv") //print(mydata)

Reading from text Fileprint(getwd())//setwd("*file path*")//myData = read.delim("text.txt", header = FALSE)//print(myData)//