multiply a matrix with its transpose.

M = matrix(c(2,6,5,1,10,4), nrow = 2,ncol = 3,byrow = TRUE) print(t(M)) t = M %*% t(M) print(t)

looping repeat statement

v <- c("Hello","loop") cnt <- 2

repeat { print(cnt) print(v) cnt <- cnt+1

if(cnt > 5) { break } }

while loop

v <- c("Hello","while loop") cnt <- 2

while (cnt < 7) { print(v) cnt = cnt + 1 }

for loop

v <- LETTERS[1:4] for (i in v) { print(i) }

Create a function to print squares of numbers in sequence.

new.function <- function(a) { for(i in 1:a) { b <- i^2 print(b) } }

Call the function new.function supplying 6 as an argument.

new.function(6)

Get the max salary from data frame.

sal <- max(data$salary) print(sal)

Get the person detail having max salary.

retval <- subset(data, salary == max(salary)) print(retval)

retval <- subset(data, dept == "IT") print(retval)

info <- subset(data, salary > 600 & dept == "IT") print(info)

retval <- subset(data, as.Date(start_date) > as.Date("2014-01-01")) print(retval)

write.csv(retval,"D:/R Workshop/output.csv") newdata <- read.csv("D:/R Workshop/output.csv", nrows=2) print(newdata)

df=data.frame(X=5,id=5,name='Rayon',salary=12000,start_date= '2014-11-15',dept='IT') df

write.table(df, "D:/R Workshop/output.csv", append = TRUE,sep = ",", col.names = FALSE, row.names = FALSE, quote = FALSE)

install.packages("xlsx") library("xlsx") mydata <- read.xlsx("D:/R Workshop/mydata.xls", sheetIndex=1) mydata