Assignment 2.3

> set.seed(50)

> m = 10; n = 10

> matrix <- replicate(m, rnorm(n))

> matdf < - data.frame(matrix)

# Vectorised Form of the solution of changing the elements of the data frame “matdf” by incrementing them by a sinusoidal function using a direct function on the data frame.

> System.time(matdf<-matdf + 10\*sin(0.75\*pi))

user system elapsed

0 0 0

# Non vectorised Form of the solution of changing the elements of the data frame “matdf” by incrementing them by sinusoidal function using a for loop

> system.time(for (i in 1:m)

{for (j in 1:n)

{matdf [i,j] <- matdf[i,j] + 10\*sin(0.75\*pi)

}

}

)

user system elapsed

0.01 0.00 0.01