x="ms9yew";#neptun kód

z=charToRaw(iconv(x, "latin1", "UTF-8"))

for (i in 1:6) v=paste("0x",z,sep="")

e=strtoi(v)

ax=e[1];ay=e[2];az=e[3];av=e[4];ss=sum(strtoi(v))

cat("ax=",ax,"\n")

cat("ay=",ay,"\n")

cat("az=",az,"\n")

cat("av=",av,"\n")

cat("ss=",ss,"\n")

ar=c( "FB","AAPL","AMZN","GOOG","NFLX","TSLA")

ai=ss-6\*floor(ss/6)

ev=2020-(ss-20\*floor(ss/20))

cat("ev=",ev,"\n")

cat("reszveny=",ar[ai],"\n")

# 1es feladat ------------------------------------------------

library(MASS)

set.seed(ss)

xy<-mvrnorm(800,mu=c(ax,ay),matrix(c(4,3.7,3.7,9),2))

var(xy)

cor(xy)

v=matrix(c(4,3.7,3.7,9),2)

v

w=chol(v)

t(w)%\*%w

z1=rnorm(800)

z2=rnorm(800)

zm=matrix(c(z1,z2),ncol=2)

zn=zm%\*%w ; zn

var(zn);v