library(TCC) #load the TCC package

counts\_file <- file ("/home/counts\_data.csv") #load csv file containing counts data, alternatively, #import in RStudio and skip this step and the following step

seq\_data <- as.matrix(read.table(counts\_file, header=FALSE, sep="\t", row.names=1,

as.is=TRUE)) #Converts the csv into a matrix

group<-c(1,1,1,1,2,2,2,2) #Assign each column to a group

tcc <-new("TCC", seq\_data, group) #Create a TCC class object

tcc <- calcNormFactors(tcc, norm.method="tmm", test.method="edger",

FDR=0.1, floorPDEG=0.05, iteration=3) #normalize counts using tmm method, setting #thresholds for FDR and p-values

tcc <- estimateDE(tcc, test.method="edger", FDR=0.1) #calculate estimated differential #expression data

seq\_data\_results <- getResult(tcc,sort=TRUE) #pull results into a sorted matrix

write.csv(seq\_data\_results,"/home/results.csv", row.names=FALSE,fileEncoding="utf8")  
#write a new csv file containing your sorted results