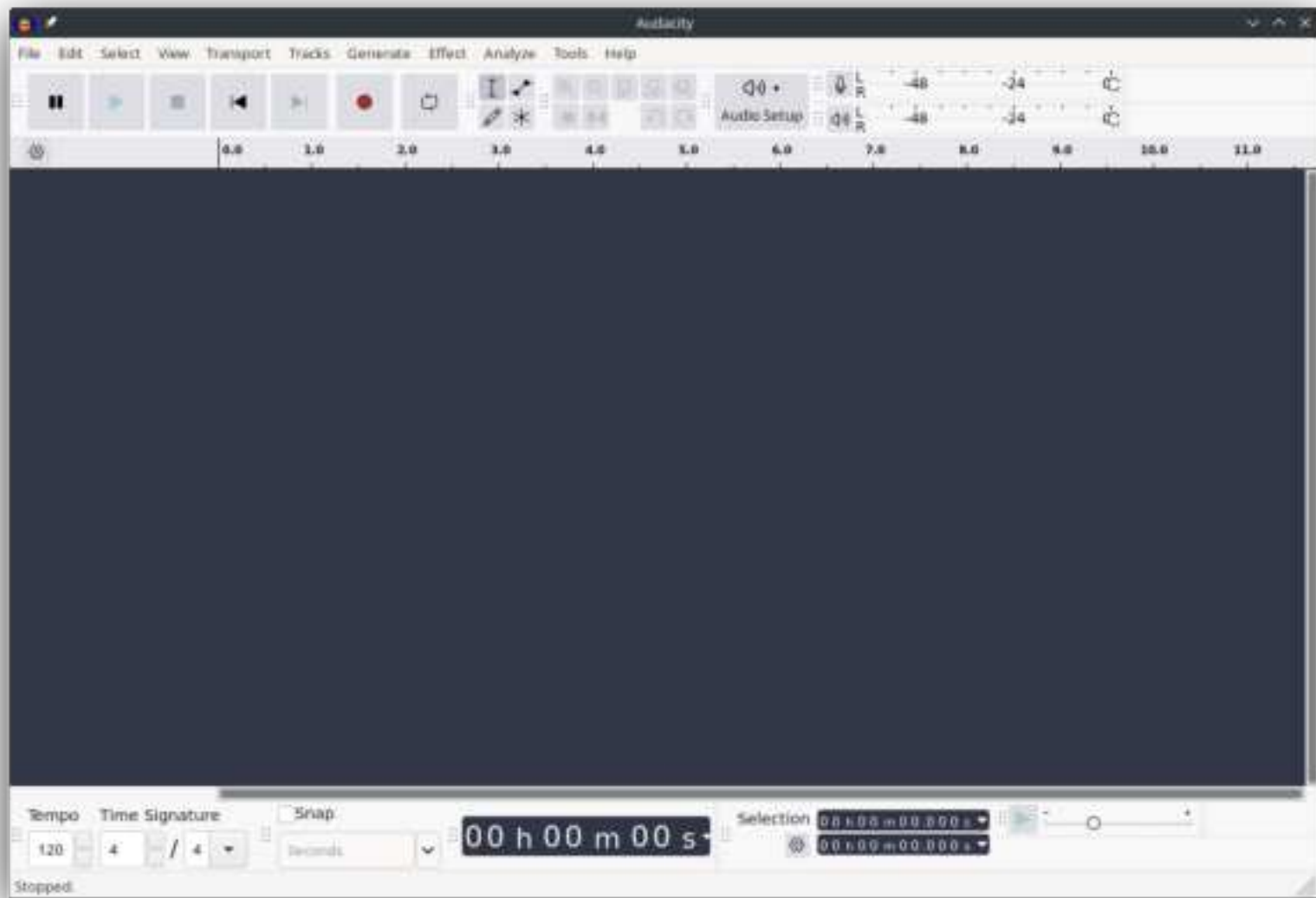
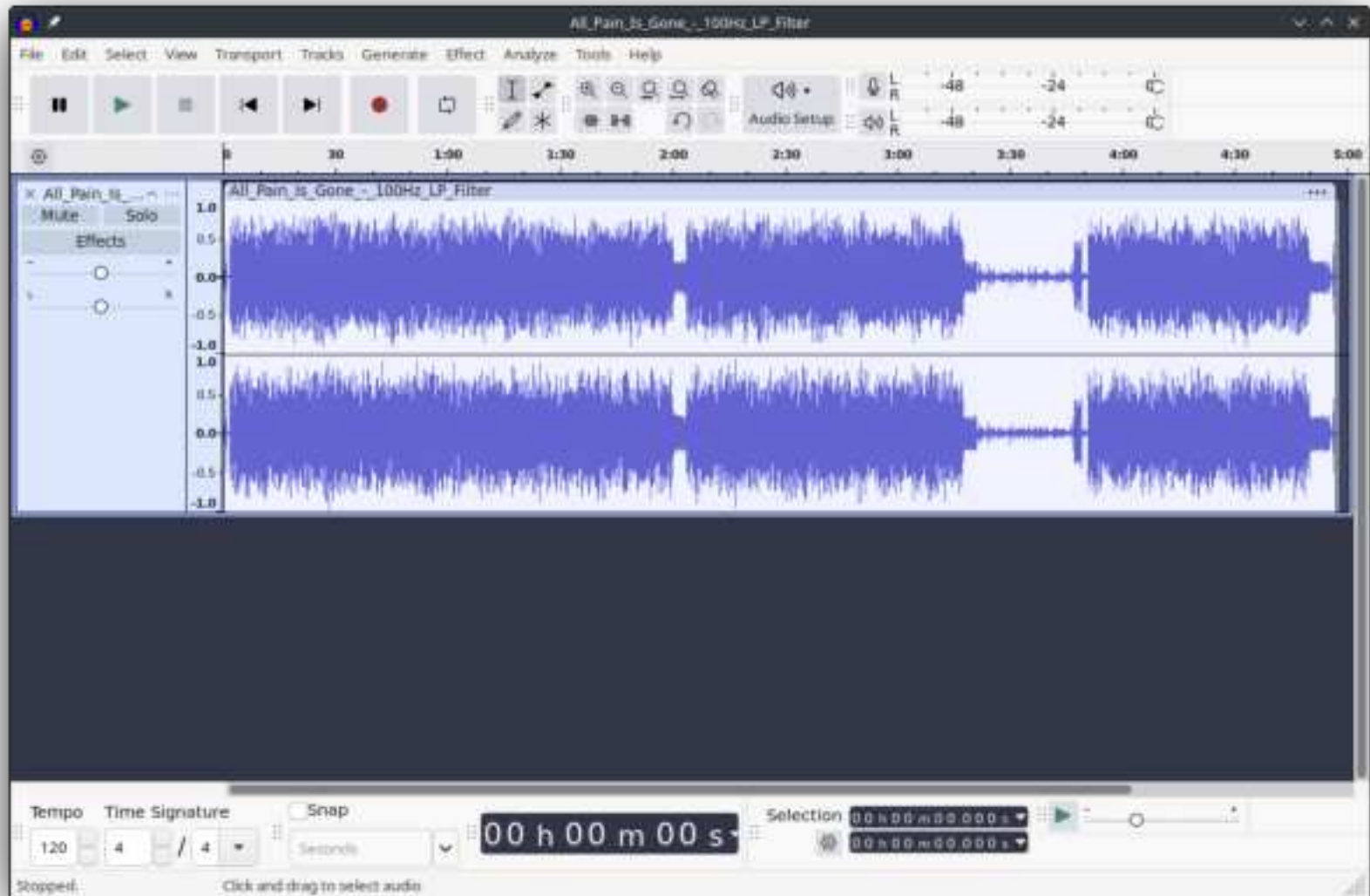




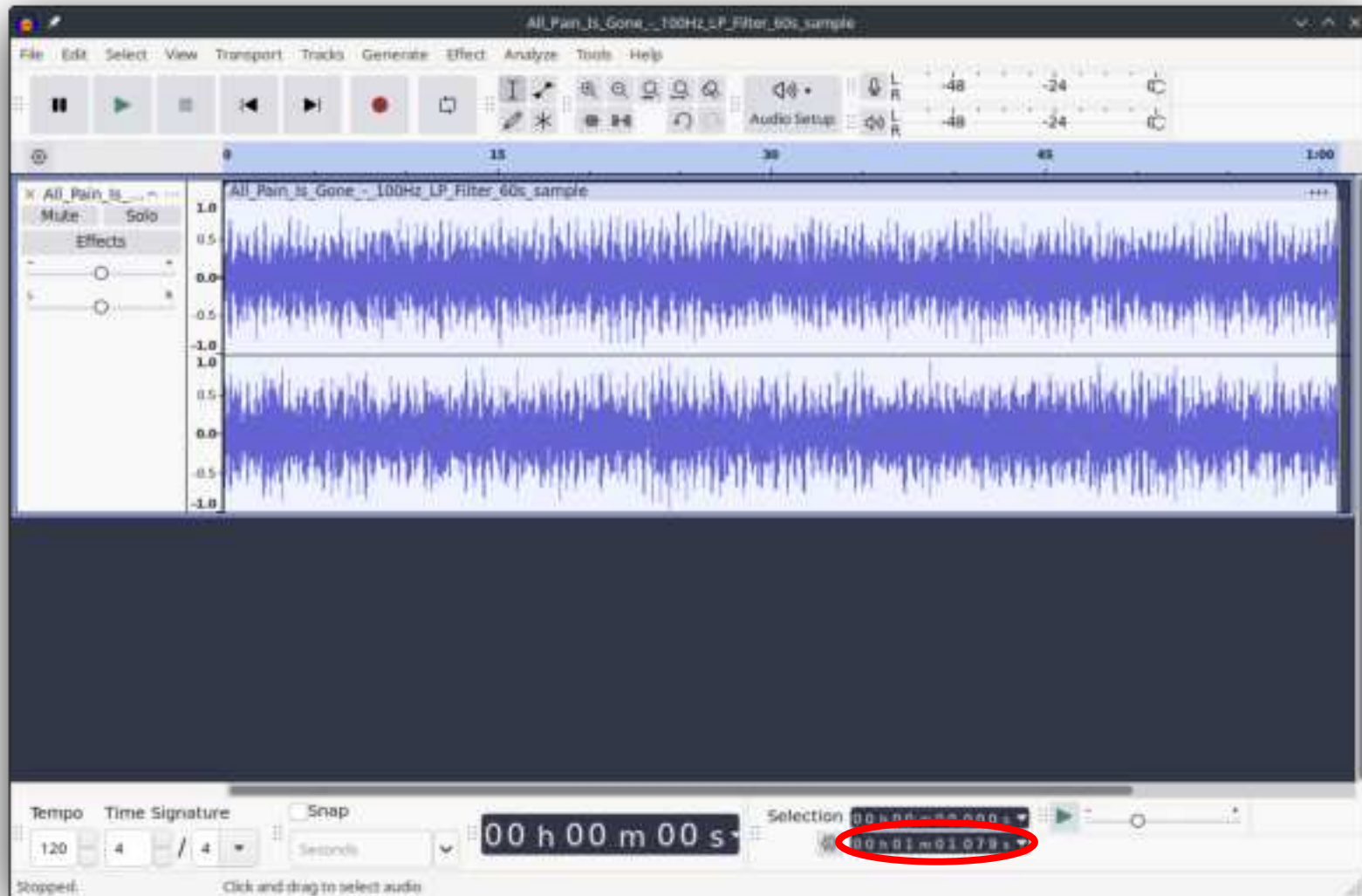
Drag and Drop you music file to Audacity

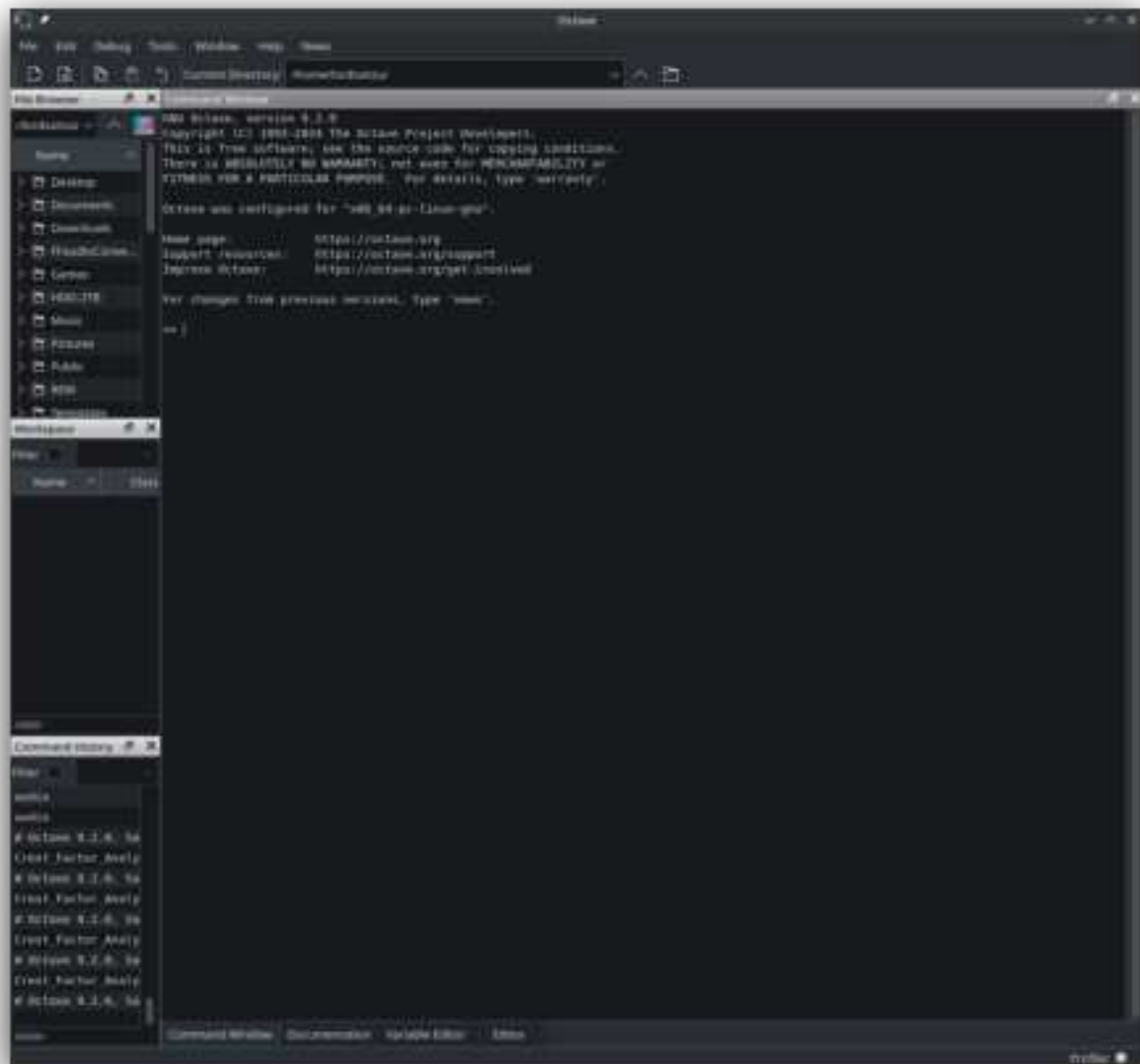


Pres Ctrl Key + A to select all audio track and than click on:
Effect → EQ and Filters → Low-pass Filter

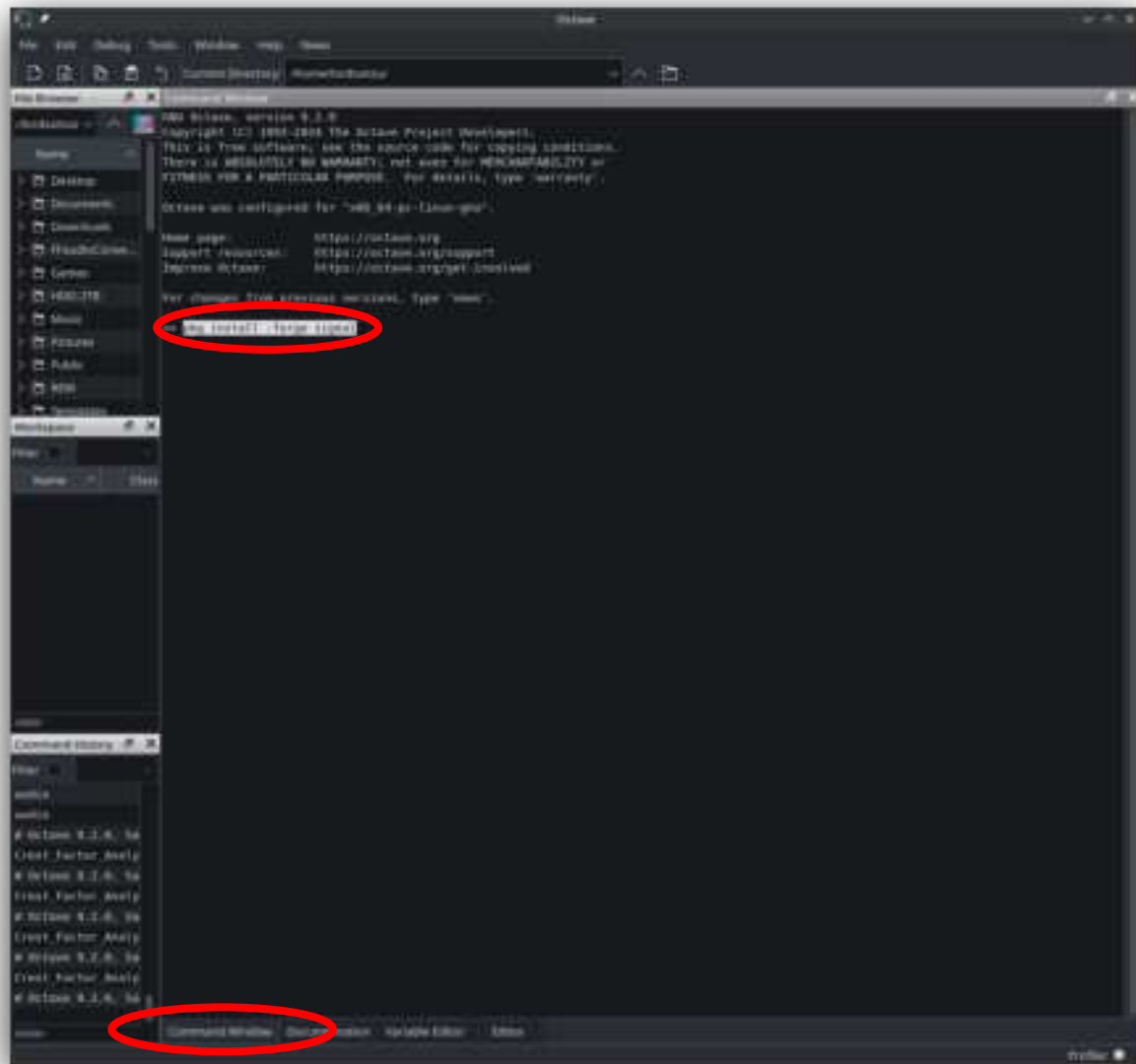


Manual Select that parts of the audio track you want to remove, mouse right click to open the menu and click on CUT.
When you achieve 1min (60s) of music track to go File → Export Audio, in the pop up windows, select the format: Ogg Vorbis File

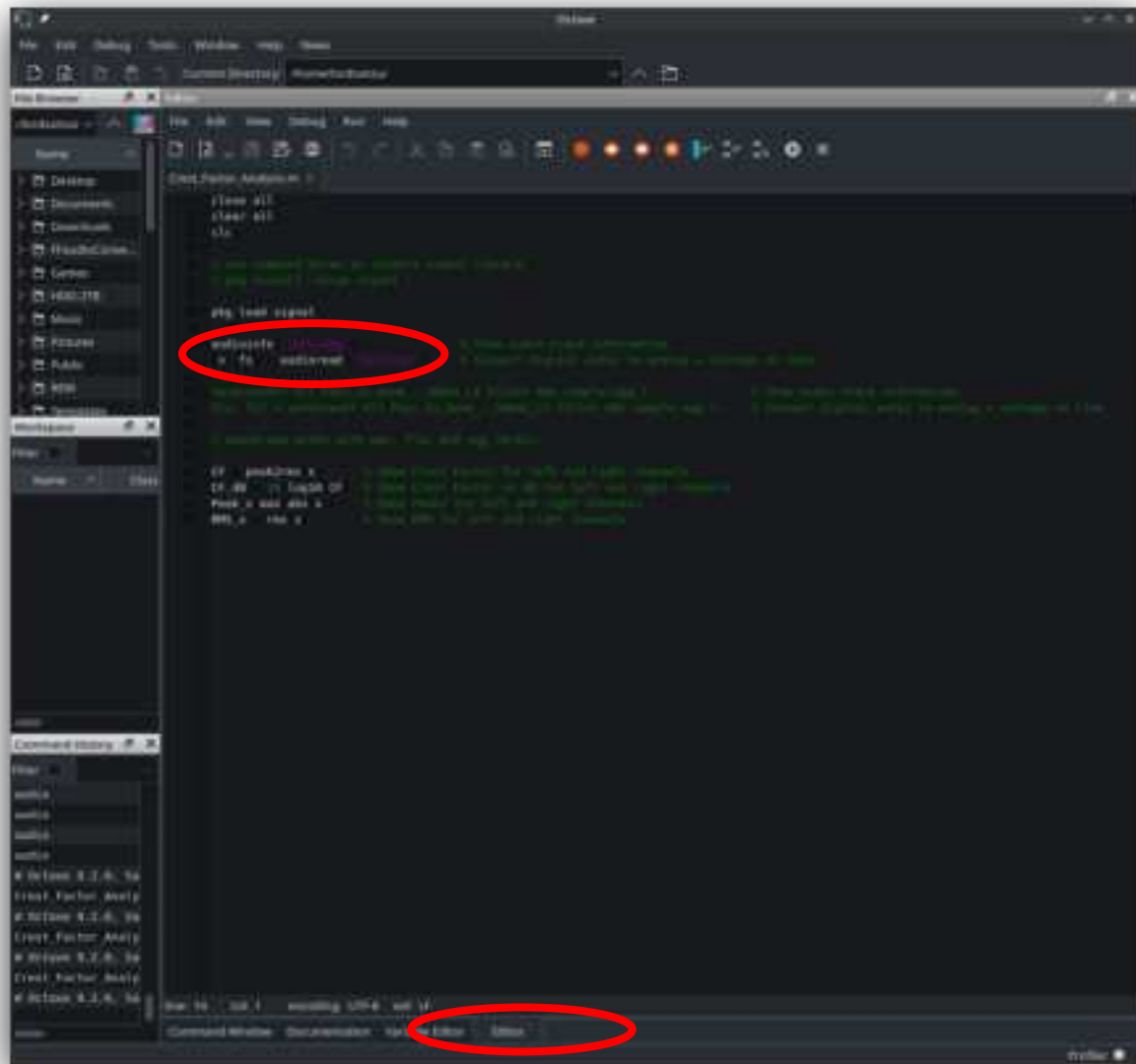




Run the command to install Signal Library to access function to process audio file.



Open the M-file Crest_Factor_Analysis.m from editor tab and change the name (pink) in the code to your file.



The screenshot shows the RStudio IDE interface. The main editor window displays a script with the following content:

```
## Load the data
data <- read.csv("data.csv")

## Create a linear model
model <- lm(y ~ x, data = data)

## Sum of Squares
SSR <- sum((fitted.values - y)^2)
SSE <- sum((y - fitted.values)^2)
SST <- sum((y - mean(y))^2)

## R-squared
R2 <- 1 - (SSR / SST)

## Adjusted R-squared
adjR2 <- 1 - ((n + 1) / (n - 2)) * (SSR / SSE)

## F-statistic
Fstat <- (SSR / 1) / (SSE / (n - 2))

## P-value
Pval <- pf(Fstat, 1, n - 2, lower.tail = FALSE)

## Print the results
cat("SSR: ", SSR, "\n")
cat("SSE: ", SSE, "\n")
cat("SST: ", SST, "\n")
cat("R-squared: ", R2, "\n")
cat("Adjusted R-squared: ", adjR2, "\n")
cat("F-statistic: ", Fstat, "\n")
cat("P-value: ", Pval, "\n")
```

A red circle highlights the section of code from `SSR <- sum((fitted.values - y)^2)` to `Pval <- pf(Fstat, 1, n - 2, lower.tail = FALSE)`. The bottom toolbar of RStudio is visible, with a red oval highlighting the 'Command Window' button.