Measurements extraction script

This script extracts the formant values (in Hertz and Bark) and the duration of vowels from the file sc.wav.

get-measurements.praat

```
<<read files>>>
</measurements loop>>>
```

The sound and TextGrid files are read, and the result file is initialised. A Formant object is also created from the sound file.

"read files"

```
sound = Read from file: "../data/sc.wav"
formant = To Formant (burg): 0, 5, 5000, 0.025, 50
textgrid = Read from file: "../data/sc-palign.TextGrid"
createDirectory("../results")
header$ = "word,vowel,duration,F1,F2,F1.bark,F2.bark"
resultFile$ = "../results/vowels.csv"
writeFileLine: resultFile$, header$
selectObject: textgrid
intervals = Get number of intervals: 1
```

The following code is the main loop with extracts the measurements. For each vowel, as indicated in the TextGrid, the start and end time of the interval are used to calculate duration and extract formant values from the Formant object. The measurements are saved in vowels.csv.

"measurements loop"

```
for interval to intervals - 1
  label$ = Get label of interval: 1, interval
  if label$ == "#"
    start = Get start time of interval: 1, interval + 8
    end = Get end time of interval: 1, interval + 8
    duration = (end - start) * 1000
    vowel$ = Get label of interval: 1, interval + 8

    selectObject: formant
    f1 = Get mean: 1, start, end, "Hertz"
```