DATASET

For future make loading from web database.

# Path to dataset of ECG   
path = 'D:/SCIENCE/Datasets/autonomic-aging-a-dataset-to-quantify-changes-of-cardiovascular-autonomic-function-during-healthy-aging-1.0.0'  
  
csv\_info\_file = 'subject-info.csv'

####################################################################################### OPENING RECORDS######################  
################################################################

FUNCTIONS

**def read\_ECGs\_annotation\_data():**

***""" Open csv info file, print header and information for each record. Then fill ECG DATABASE. """***

**def open\_record(id, min\_point, max\_point)**

*Open each record with ECGs by Id.*

*Input parameters:  
 - Id - Id of record (for example: 0001, 0002 …)  
 - min\_point - minimum point, at which starts ECG (including this point)  
 - max\_point - maximum point, at which ends ECG (not including this point)  
  
 Output parameters:  
 - [sequence\_1, sequence\_2] - list with sequence\_1 for first ECG and sequence\_2 for second ECG"""  
  
  
Describing:  
 wfdb.rdrecord(path + '/' + id, min\_point, max\_point, [0, 1])  
  
 min\_point = 0 - The starting sample number to read for all channels  
 (point from what graphic starts (min\_point)).  
  
 max\_point = None - The sample number at which to stop reading for all  
 channels (max\_point). Reads the entire duration by default.  
  
 [0, 1] - first two channels (ECG 1, ECG 2); [0] - only first ECG.*