>>q1

resample changes the sampling frequency thereby increasing/decreasing speed.

>>q2

audioplayer is used for recording and conv for convolution.

>>q3

Task is achieved through SURF method of feature detection.

If we get noisy images, we can try to first smooth the image by applying different filters.

If noise is less so that the features can be properly detected then we can easily identify the face with noisy image also.

>>q4

q41.m contains NNI.

q42.m contains BI.

>>q5

Lowess method gives the best results from the various algorithms tried

Our data is noisy throughout its duration so filters like movmean,movmedian cannot give good results as the mean/median would be noisy too.

Lowess method uses linear regression which minimizes the error as discussed in the classroom and hence it works fine for this data set.