Grading Q6:

The implementation of DES in R (function HoltWinters) does not allow us to set directly alpha= beta, which is the version of DES that is explained in class.

There are different ways around this:

- We can get the two smoothed sequences by applying twice the HoltWinters function with the same alpha (and beta set to zero). This amounts to using an exponential smoother twice (which is exactly what was done in class). Alternatively, the function filter can be used in the two steps.
 Full mark of 12 will be given to anybody who uses this method.
- Another way is to call HoltWinters with a pre-specified value of alpha and beta (where both are the same). We repeat this step for many alpha-s and then choose the best alpha. This is the method suggested in the description of the problem (as for this we have to specify some initial values).
 Full mark of 12 will be given to anybody who uses this method.
- 3. The easiest solution would be to let HoltWinters choose the optimal alpha and beta independently. However, this will not be the same as the method described in class (although the results should be close). **Mark of 7** will be given to anybody who uses this method.