In this homework you may find the following resources helpful:

- David Odden's introduction to phonology (esp. Ch. 4 and 5).

- A chart for feature values of Turkish sounds.

- A website for IPA table with sounds.

In writing your rules, if you find it hard to write features aligned vertically like we had in the notes, you can list them horizontally by putting commas in between (e.g. [feat1, feat2, ...]).

Question 1

Model the phonology of the plural marker in Turkish. This consists of proposing an underlying form for the marker and a phonological rule (or rules) that handles the [e]/[a] alternation in the marker. If you have more than one rule, specify the order of application of your rules.

Question 2

Extend your answer to the previous question to the phonology of the suffix that forms adjectives from nouns as in *akıl* to *akıllı*, *ev* to *evli*, and so on. Think of as many examples as required to capture all the different forms of the suffix.

Question 3

Model the phonology of the third person possessive suffix in Turkish. You have it in compounds like *bebek arabası* and genitive possessive constructions like *Ayşe'nin görüşü*. Again, think of as many examples as needed; and, again, state the underlying form of the suffix and the phonological rule (or rules) needed.

Question 4

Now consider the addition of the accusative marker (= 'ismin *i* hali') to noun phrases (= things you can put in front of *çok güzel* and get a grammatical Turkish sentence) with and without a possessive marker. Again specify underlying forms and phonological rules. In answering this final question, bring together all the underlying forms and rules you had so far.