1. Encode the following sentences as Description Logic formula’s:

a) Grandparents are either grandfathers or grandmothers

b) You can’t be both a grandfather and a grandmother

c) Every person has grandparents

d) Grandparents are people who have at least one child that has at least one child

2. Translate the following sentence into ALC: A professor is a person who is an expert in at least one topic and everything they say is smart.

3. For each of the formules 1-6 listed in the green box on slide 19, explain with a calculation why the given extension of that concept is correct.