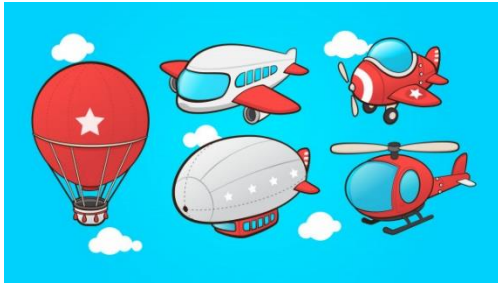# Seminar – week 8

Write an application to keep the aircraft evidence in a country. Each aircraft has a unique identifier and a model, is suitable only for certain activities (e.g. public transportation, medical emergencies, leisure time, military) and can reach a certain maximum altitude.

An aircraft can be one of the following three: helicopter, plane or hot air balloon.

A helicopter:

- has the following additional characteristic: *isPrivate*, specifying whether the helicopter belongs to the state or to a private entity.
- is suitable for activities like: military, medical emergencies, public transportation and leisure time (only if it is private).
- can reach a maximum altitude of 12 km.

A plane:

- has the following additional characteristics: *isPrivate*, specifying whether the plane belongs to the state or to a private entity and main wings (the plane can be either monoplane or biplane).
- is suitable for activities like: military, public transportation and leisure time (only if it is biplane).
- can reach a maximum altitude of 26 km.

A hot air balloon:

- has the following additional characteristics: *weight limit*, specifying the maximum weight limit for the balloon.
- is suitable for activities like: leisure time.
- can reach a maximum altitude of 21 km.

The application should allow the following:

1. Add any type of aircraft.
2. Display all aircraft which can be used for a certain activity and save them to a file having the activity's name.
3. Display all aircraft which can reach at least a given altitude.