Adelaide Airport Air Traffic Control System

Functions:

* To fly a plane a Pilot and a CoPilot is required. Pilots are station at the airport. So if there are no pilots available the plane will not fly.
* Planes can request a departure from the traffic controller
* Request for landing from the traffic controller

Classes:

* Adelaide\_Airport (super class)
* Plane (sub class of Adelaide\_Airport)
* Pilot (sub class of Plane and Adelaide\_Airport)

**Pilot**

State:

* Name
* Age
* Flight\_time
* Gender

Behaviour:

* Get\_detail()
* Request\_landing()
* Request\_departure()

**Plane**

State:

* Name
* Fuel
* Destination
* From
* Pilot
* Co\_Pilot
* No. passengers

Behaviour:

* Landing()
* Departure()
* Standby()
* Get\_Pilot()
* Get\_CoPilot()

**Adelaide\_Airport**

State:

* gate (6 gates)
* Runway (2 runways)
* Planes array (6 planes)
* Pilots array (12 pilots)

Behaviour:

* Allow\_landing() - if any gate is available. (BOOL). If allow, store in a array (gates)
* Allow\_departure() (BOOL) need: passengers, pilot, copilot, fuel ,
* Check\_gate\_availability()
* Get\_plane\_detail()
* Add\_plane() : Allowing landing (check runway availability)

Week 8:

Pilot

Plane

Week 9:

Airport

Week 10:

Combining classes to make functions

start main

Week 11:

Interface and main