## Question 1

An **Address** class has 3 properties of number, postcode and occupants. Occupants is a list of type **Person** who live at the address.

The Person class has properties of name and job (String). It has 1 fully parameterised constructor.

The Address class has a method called checkJob with a parameter of job which returns true or false if a person at the address has that job or not (ignore case).

## Question 2

An **Airport** has 3 properties of name, a location and flights which is a list of Flights. Each **Flight** has numberOfPassengers, destination and costPerSeat.

The Airport constructor takes the name and location. Airport also has a method called totalCost which returns numberOfPassengers \* costPerSeat for all the Flights.

## Question 3

A **Shop** has an owner, a name and a list of Items (called items). Each **Item** has a name, a category (e.g. electrical), and a location (a letter digit e.g. A5 or F8). Shop also has a method (itemsInCategory) to count the number of items in a particular category (i.e. a method which takes a string parameter (ignore case) and returns a number).