UFCFC3-30-1 Introduction to OO Systems Development (01-2022)

# In-class Test 5 Week 22

## Test 5A

A Hospital will have 3 properties which is name, address and Doctors. Doctors are a list of type of employees who work in the hospital..

The doctor class has properties of id, name and speciality, also has 1 fully parameterised constructor.

The doctor class has a method called **checkSpeciality()** with a parameter of speciality which returns true or false if a doctor at the hospital has that speciality (ignore case).

## Test 5B

A **CustomerBill class** has 3 properties of bill\_no, a date and items which is a list of items sold. Each **item** has quantity and price.

The CustomerBill constructor takes the bill\_no and location and also has a method called totalBill() which returns quantity \* price for each selected item.

## Test 5C

A ComputerServiceCenter has a name and a list of computers (taken for service). Each Computer has a jobSheetNumber, model and a service\_type (eg: OSreinstalling, virusScanning).

ComputerServiceCenter also has a method (ComputerForScan) to count the number of computers brought for virus scan (i.e. a method which takes a string parameter (ignore case) and returns a number).

## Test 5D

An Individual has a name and an EntryCoupon (which has a financial limit) and wants to participate in Activities offered by a carnival. Each **Activity** has a description, a cost (integer).

**Individual** also has a Boolean method canParticipate () which checks that the price of the Activity and apply if only the activity cost is lower than the coupon current limit.