### **Practical session 7**

This work should be completed before the next lecture.

# Task 1: Parameterised DVD supplier

Create a new NetBeans project.

Copy into the new project your DVD class from Task 1 of Week 5.

Following the concepts illustrated in the IntegerArraySupplier class, write a class that is a parameterised Supplier for your DVD class. You must include a constructor method that takes the title, lead actor and number of stars for the DVD to be created.

In the application class, create a Supplier that uses the DVD Supplier to create an ArrayList of 10 DVD objects.

In the main () method of the application class:

- create an ArrayList of 10 DVD objects
- use a Consumer to print the contents of the ArrayList

### Portfolio requirements:

The NetBeans project for this completed task

#### Task 2: Parameterised Predicate

Copy your NetBeans project from Task 1.

Following the concepts illustrated in the IntegerArraySupplier class, add a class that is a parameterised Predicate that returns true if the DVD title starts with a letter in the range, c1 (inclusive) to c2 (exclusive), given to the constructor

Modify the main() method of the application class as follows:

- Use your Predicate class to print the details of the DVD objects whose title starts with a letter in the range A to D
- Use your Predicate class to print the details of the DVD objects whose title starts with a letter in the range P to W

#### Portfolio requirements:

The NetBeans project for this completed task

## Task 3: Use a Function

Copy your NetBeans project from Task 2.

In the main () method of the application class:

- Write a Function that uses your Predicate class to return the number of DVD objects whose title starts with a letter in the range A to D; output that number
- Write a Function that uses your Predicate class to return the number of DVD objects whose title starts with a letter in the range P to W; output that number

### Portfolio requirements:

The NetBeans project for this completed task