Theory Questions

- a) Describe briefly the fundamental characteristics of creational design patterns.
- b) What is the difference between an Abstract and Concrete class?
- c) What is the intent of the builder design pattern?

Practical Work:

- A) Get the person code implementation with the builder design pattern in resources up and running and comment it to show you understand it.
- B) Using the code provided in resources this week (ComputerBuilderDirector), write a Java code implementation for a Computer class where the required parameters and optional parameters are:

```
//required parameters
   private String RAM;
   private String HDD;
   private String CPU;

//optional parameters
   private boolean isGraphicsCardEnabled;
   private boolean isBluetoothEnabled;
```

Using a class called ComputerClient, you should test the creation of a computer using the **builder pattern** and also test the creation of a computer using the **director class** (ComputerBuilderDirector).