**Session 23 – Learning outcome**

Topics: Generics, Assertions, Interfaces, the “Bag” ADT, LinkedLists, and Stacks, Algorithms using these data types.

Understanding:

* Understand what the “Bag” data type is
* Understand what LinkedLists are
* Understand what Stacks are
* Understand the difference between specification (Interface) and implementation (Class)

Competencies:

* Know how to use assertions
* Know how to use simple generics in Java
* Know how to use Interfaces to define functionality
* Know how to implement interfaces
* Know how to implement generic interfaces with generic subclasses
* Have tried to use an ADT to implement a somewhat complex functionality