## SENG2200/6220 – Programming Languages & Paradigms Self-Quiz for Week 6, Semester 1, 2020

## True/False Questions.

- 1. Iterator is the concept only for Java.
- 2. A container can have many iterators, but an iterator can associate with only one container.
- 3. An iterator cannot exist after the associated container is destroyed, i.e. they have the same lifetime.
- 4. Iterator and container objects can work under Polymorphism.
- 5. A container must implement the Iterable<E> interface to instantiate iterator objects.
- 6. An iterator class should be modelled as a private inner class of a container class.
- 7. The iterator object iter will throw an exception.

```
Iterator<MyClass> iter = tcol.iterator();
while (iter.hasNext()) {
    MyClass myObject = iter.next();
    if ( ... some condition ... )
        tcol.removeLast();
}
myObject = iter.next();
```

## **Short-Answer Questions**

- 8. What is a collections framework? What advantages can we have by using the collections framework?
- 9. The next() method of the Iterator<E> interface needs to check two preconditions, what are they?