**Session 12 Assignment 3**

* Created list of tuples

scala> val list = Map((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega"))

list: scala.collection.immutable.Map[Int,String] = Map(5 -> omega, 1 -> alpha, 2 -> beta, 3 -> gamma, 4 -> zeta)

* Printing the numbers where the corresponding string length is 4

scala> list.foreach( s => if(s.\_2.length == 4) println(s.\_1));

2

4

* Average of numbers, where the corresponding string contains alphabet ‘m’ or alphabet ‘z’

scala> val filterMap = list.filter(s => s.\_2.contains("m") || s.\_2.contains("z"));

filterMap: scala.collection.immutable.Map[Int,String] = Map(5 -> omega, 3 -> gamma, 4 -> zeta)

scala> val maplist = filterMap.map(s => s.\_1);

maplist: scala.collection.immutable.Iterable[Int] = List(5, 3, 4)

scala> val sum1 = maplist.foldLeft(0) ((x,y) => x+y);

sum1: Int = 12

scala> val count = list.count(s => s.\_2.contains("m") || s.\_2.contains("z"));

count: Int = 3

scala> val avg = sum1 / count;

avg: Int = 4

scala>

