Acadgild Assignments -Scala Session 1

SCALA code:

```scala
package assignments

object Assign1{
  def main(Ary: Array[String]):Unit = {

    var list1 = List("alpha", "gamma", "omega", "zeta", "beta")
    var count = 0
    //count all strings with length 4
    list1.foreach(f => if (f.length() == 4) count += 1 )
    println("1.count of all strings with length 4 is : " + count)
    // string mapped to its corresponding length
    var list2 = list1.map(f => f -> f.length())
    println("2.Strings mapped to its length: "+ list2.mkString(" "))
    // count of all strings which contain alphabet 'm'
    count = 0
    list1.foreach(f => if(f.contains('m')) count +=1 )
    println("3.count of all strings which contains 'm' : " + count)
    // count of all strings which starts with alphabet 'a'
    count = 0
    list1.foreach(f => if(f.startsWith("a")) count +=1 else 0)
    println("4.count of all strings which starts with  'a' : " +
count)

    //Task 2
    var tup1 = List((1, "alpha"), (2, "beta"), (3, "gamma"), (4,
"zeta"), (5, "omega"))
    //print the numbers corresponding string length is 4
    print("5.Numbers corresponding string length is 4 : " )
    tup1.foreach(f => if (f._2.length() == 4) print(f._1 + " ")  )
    println()
    var sum= 0
    count = 0
    //The average of all numbers, where the corresponding string
contains alphabet 'm' or alphabet 'z'.
    tup1.foreach(f => if (f._2.contains('m')|f._2.contains('z')) {sum
+= f._1; count += 1} else 0)
    println("6.Average is " + sum/count)

  }
}
```

Console Output:

```
1.count of all strings with length 4 is : 2
2.Strings mapped to its length: (alpha,5) (gamma,5) (omega,5) (zeta,4) (beta,4)
3.count of all strings which contains 'm' : 2
4.count of all strings which starts with  'a' : 1
5.Numbers corresponding string length is 4 : 2 4
6.Average is 4
```