Assignment Submission- Session 14

Task 1

Given a list of strings - List[String] (“alpha”, “gamma”, “omega”, “zeta”, “beta”)

1. Find count of all strings with length 4.

```
object CountWithLengthFour {

  def main(args: Array[String]): Unit = {
    val variants = List[String]("alpha", "gamma", "omega", "zeta", "beta")
    val reqCount = variants.count( word => word.length==4)
    println("Number of elements with length 4 ="+reqCount)
  }
}
```

2. Convert the list of string to a list of integers, where each string is mapped to its corresponding length.

```
object MappedToLength {
  def main(args: Array[String]): Unit = {
    val variants = List[String]("alpha", "gamma", "omega", "zeta", "beta")
    val reqList = variants.map(word => word.length)
    reqList.foreach(element => println(element))
  }
}
```

3. Find count of all strings which contain alphabet ‘m’

```
object StringWithM {
  def main(args: Array[String]): Unit = {
    val variants = List[String]("alpha", "gamma", "omega", "zeta", "beta")
    val reqCount =  variants.count(word => word.contains("m"))
    println("Count of string that contain m ="+reqCount)
  }
}
```

4. Find the count of all strings which start with the alphabet ‘a’.

```
object StringStartWithA {
  def main(args: Array[String]): Unit = {
    val variants = List[String]("alpha", "gamma", "omega", "zeta", "beta")
    val reqCount = variants.count(words => words.startsWith("a"))
    println("Count of string that starts with a ="+reqCount)
  }
}
```

Task 2

Create a list of tuples, where the 1st element of the tuple is an int and the second element is a string.

Example - ((1, ‘alpha’), (2, ‘beta’), (3, ‘gamma’), (4, ‘zeta’), (5, ‘omega’))

- For the above list, print the numbers where the corresponding string length is 4.
- find the average of all numbers, where the corresponding string contains alphabet ‘m’ or alphabet ‘z’.