ASSIGNMENT 12.2

Given a list of strings - List[String] (“alpha”, “gamma”, “omega”, “zeta”, “beta”)
- find count of all strings with length 4
- convert the list of string to a list of integers, where each string is mapped to its corresponding length
- find count of all strings which contain alphabet ‘m’
- find the count of all strings which start with the alphabet ‘a’

List.scala

```
object obj extends App { //object of class

//initializing list and variables
 val myList = List("alpha", "gamma", "omega", "zeta", "beta")
 var letter = 0
 var counta = 0
 var countm = 0
 val map = scala.collection.mutable.Map[String, Int]() //map
for (i <-myList)
{
  if (i.length()==4)    //check length is 4
  {
    letter = letter + 1  //counts word of length 4
  }

  map.put(i,i.length())

  if (i.contains("a"))
  {
    counta +=1    //counts words with letter 'a'
  }

  if (i.contains("m"))
  {
    countm +=1    //counts words with letter 'm'
  }

}
 //output printing
  println("count of all strings with length 4  " + letter)
  println("each string is mapped to its corresponding length  " + map)
  println("count of all strings which contain alphabet ‘m’  " + countm)
  println("count of all strings which start with the alphabet ‘a’  " + counta)

}
```

Output

```
count of all strings with length 4  2
each string is mapped to its corresponding length  Map(beta -> 4, alpha -> 5,
omega -> 5, gamma -> 5, zeta -> 4)
count of all strings which contain alphabet ‘m’  2
count of all strings which start with the alphabet ‘a’  5
```