Bigdata Assignment 4.7

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'

Solution -
- First we entered into spark shell by uing the command - **spark-shell**

- Then we loaded the strings into list in the scala shell
  var Strings = List("alpha","gamma","omega","zeta","beta")

```
scala> var Strings = List("alpha","gamma","omega","zeta","beta")
Strings: List[String] = List(alpha, gamma, omega, zeta, beta)
```


1. count of all strings with length 4 using length
   Strings.count(s=> s.length == 4)
Ans - 2

```
scala> Strings.count(s=> s.length ==4)
res1: Int = 2
```


2. List of string to a list of integers, where each string is mapped to its corresponding length using map

Strings..map(_.length)
Ans – List[Int[= List(5,5,5,4,4)

```
scala> Strings.map(_.length)
res4: List[Int] = List(5, 5, 5, 4, 4)
```

3. count of all strings which contain alphabet 'm' using contains
   Strings.count(s => s.contains("m")
Ans - 2

```
scala> Strings.count(s=> s.contains("m"))
res3: Int = 2
```

4. Count of all strings which start with the alphabet 'a'
   Strings.count(s=> s.startsWith("a"))

Ans - 1

```
scala> Strings.count(s=> s.startsWith("a"))
res2: Int = 1
```