

Assignment 12.2:

Problem Statement:

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

Steps:

A list with name 'assignment' is created and assigned with string values as follows:

```
val assignment = List("alpha", "gamma", "omega", "zeta", "beta")
```

- Find count of all strings with length 4

```
assignment.count(arg => arg.length == 4)
```

The screenshot shows the Scala REPL interface. The code entered is: `val assignment = List("alpha", "gamma", "omega", "zeta", "beta")` and `assignment.count(arg => arg.length == 4)`. The output shows the list creation and the result: `res0: Int = 2`.

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

```
assignment.map(arg => arg.length)
```

The screenshot shows the Scala REPL interface. The code entered is: `val assignment = List("alpha", "gamma", "omega", "zeta", "beta")` and `assignment.map(arg => arg.length)`. The output shows the list creation and the result: `res0: List[Int] = List(5, 5, 5, 4, 4)`.

- Find count of all strings which contain alphabet 'm'

```
assignment.count(arg => arg.contains("m"))
```

The screenshot shows the Scala REPL interface. The code entered is: `val assignment = List("alpha", "gamma", "omega", "zeta", "beta")` and `assignment.count(arg => arg.contains("m"))`. The output shows the list creation and the result: `res0: Int = 2`.

- Find the count of all strings which start with the alphabet 'a'

```
assignment.count(arg => arg.startsWith("a"))
```

The screenshot shows the Scala REPL interface. The code entered is: `val assignment = List("alpha", "gamma", "omega", "zeta", "beta")` and `assignment.count(arg => arg.startsWith("a"))`. The output shows the list creation and the result: `res0: Int = 1`.