Assignment 14:

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

Note: Code containing all the below task is uploaded separately.

1. Find count of all strings with length 4.

Output:

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

Output:

```
var signlist2: List[String] = List("alpha", "gamma", "omega", "zeta", "beta")
var stringlength: Int = 0

val signlistnew: String = ""
var newlist = List[String]()
var newstring: String = ""

for (signlistnew <- signlist2) {
    stringlength = signlistnew.length
    newstring = signlistnew + " " + stringlength
    newlist:= newstring
}

println(s"List of items with it's length is ")
println(newlist)</pre>
signlist2: List[String] = List(alpha, gamma, omega, zeta, beta)
stringlength: Int = 0

stringlength: Int = 0

signlistnew: String =
newlist: List[String] = List()
newstring: String =
res2: Unit = ()

List of items with it's length is res3: Unit = ()
List (beta 4, zeta 4, omega 5, gamma 5, alpha 5)
res4: Unit = ()

stringlength: Int = 0

List (beta 4, zeta 4, omega 5, gamma 5, alpha 5)
res4: Unit = ()

stringlength: Int = 0

List (beta 4, zeta 4, omega 5, gamma 5, alpha 5)
res4: Unit = ()

stringlength: Int = 0

List (beta 4, zeta 4, omega 5, gamma 5, alpha 5)
res4: Unit = ()

stringlength: Int = 0

List (beta 4, zeta 4, omega 5, gamma 5, alpha 5)
res4: Unit = ()

stringlength: Int = 0

stringlength: Int = 0

List (beta 4, zeta 4, omega 5, gamma 5, alpha 5)
res4: Unit = ()

stringlength: Int = 0

stringlength: Int = 0

List (beta 4, zeta 4, omega 5, gamma 5, alpha 5)
res4: Unit = ()

stringlength: Int = 0

s
```

3. Find count of all strings which contain alphabet 'm'.

Output:

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

Output:

```
var signlist4: List[String] = List("alpha", "gamma", "omega", "zeta", "beta")
val signlistnew2: String = ""
var account = 0
for (signlistnew2 <- signlist4 if signlistnew2.startsWith("a")) {
    account += 1
}
println(s" count of strings that starts with letter a is $account")

47
48
49
signlist4: List[String] = List(alpha, gamma, omega, zeta, beta)
50
signlistnew2: String =
account: Int = 0
res7: Unit = ()
53
println(s" count of strings that starts with letter a is 1 res8: Unit = ()</pre>
```

Task 2:

1. 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'))

2. For the above list, print the numbers where the corresponding string length is 4.

Output:

3. find the average of all numbers, where the corresponding string contains alphabet 'm' or alphabet 'z'.