

 Assignment\_22.1

## Task 2

```

/*
This program finds the following for 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'
*/

```

```

var lst = List[String] ("alpha", "gamma", "omega", "zeta", "beta") //Given
list data

//Prints the count of all strings with length 4
var count_strings_length_4 = lst.count(s => s.length == 4 )
println("The count of all strings with length 4 is: "+
count_strings_length_4+"\n")

//Prints the list of integers where each string is mapped to its corresponding
length
var list_of_length_string = lst.map(s => s.length)
println("The list of integers where each string is mapped to its corresponding
length is: "+list_of_length_string+"\n")

//Prints the count of all strings which contain alphabet 'm'
var count_strings_contains_m = lst.count(s => s.contains("m"))
println("The count of all strings which contain alphabet 'm' is: " +
count_strings_contains_m+"\n")

//Prints the count of all strings which start with the alphabet 'a'
var count_strings_starts_with_a = lst.count(s => s.startsWith("a"))
println("The count of all strings which start with the alphabet 'a' is:
"+count_strings_starts_with_a+"\n")

```

The count of all strings with length 4 is: 2

The list of integers where each string is mapped to its corresponding length i  
s: List(5, 5, 5, 4, 4)

The count of all strings which contain alphabet 'm' is: 2

The count of all strings which start with the alphabet 'a' is: 1

```
lst: List[String] = List(alpha, gamma, omega, zeta, beta)
count_strings_length_4: Int = 2
list_of_length_string: List[Int] = List(5, 5, 5, 4, 4)
count_strings_contains_m: Int = 2
count_strings_starts_with_a: Int = 1
```

## Task 3

The gcd of 10 and 3 is: 1

```
gcd: (a: Int, b: Int)Int
a: Int = 10
b: Int = 3
```