Session 12 : SCALA

Assignment 2

**Problem Statement**

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:-**

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**import** scala.collection.mutable.ListBuffer

**class** Assignment12\_2Class {

**val** list = List[String]("alpha", "gamma", "omega", "zeta", "beta")

//finding count of all strings with length 4

**def** countWithLengthFour(){

**var** count=0;

**for** (name <- list)

{

**if**(name.length()==4)

{

count= count+1;

}

}

println("Problem 1 - Count of all strings with length 4 = "+count);

}

//converting the list of string to a list of integers, where each string is mapped to its corresponding length

**def** convertListToLengthList():ListBuffer[Int] ={

**val** lenList = ListBuffer[Int]();

**for** (name <- list)

{

lenList += name.length();

}

println("Problem 2 - List of string lengths = " + lenList);

**return** lenList;

}

//find count of all strings which contain alphabet ‘m’

**def** findCountOfStringContainingM() ={

**var** count = 0;

**for** (name <- list)

{

**if**(name.contains('m') || name.contains('M'))

{

count = count+1;

}

}

println("Problem 3 - Count of strings containing M = " + count);

}

//finding the count of all strings which start with the alphabet ‘a’

**def** findCountOfStringStartsWithA() ={

**var** count = 0;

**for** (name <- list)

{

**if**(name.startsWith("a") || name.startsWith("A"))

{

count = count+1;

}

}

println("Problem 4 - Count of strings starting with A = " + count);

}

}

**object** MainObj{

**def** main(args:Array[String])

{

**var** obj = **new** Assignment12\_2Class();

obj.countWithLengthFour();

obj.convertListToLengthList();

obj.findCountOfStringContainingM()

obj.findCountOfStringStartsWithA();

}

}

**Output:-**

