Session 12 : SCALA

Assignment 3

**Problem Statement**

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’))

- for the above list, print the numbers where the corresponding string length is 4

- find the average of all numbers, where the corresponding string contains alphabet ‘m’

or alphabet ‘z’

**Solution:-**



**class** Assignment12\_3Class

{

**val** tupleList = List[(Int, String)]((1, "alpha"), (2, "beta"), (3, "gamma"), (4, "zeta"), (5, "omega"));

//print the numbers where the corresponding string length is 4

**def** findLengthFour()

{

println("Problem 1 : numbers where the corresponding string length is 4")

**for**( t <- tupleList)

{

**if**(t.\_2.length() == 4 )

{

println(t.\_1);

}

}

println("---------------------------------------");

}

//finding the average of all numbers, where the corresponding string contains alphabet ‘m’ or alphabet ‘z’

**def** findAvgZM()

{

**var** total = 0;

**var** count = 0;

**for**( t <- tupleList)

{

**if**(t.\_2.contains('m') || t.\_2.contains('M') || t.\_2.contains('z') || t.\_2.contains('Z'))

{

total = total + t.\_1;

count = count + 1;

}

}

println(" ");

println("Problem 2 : average of all numbers, where the corresponding");

println("string contains alphabet ‘m’ or alphabet ‘z’ = " + (total/count));

}

}

**object** Obj{

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

{

**var** obj = **new** Assignment12\_3Class();

obj.findLengthFour();

obj.findAvgZM();

}

}

**Output:-**

