## ASSIGNMENT SCALA 1

## TASK 1:

EXPLANATION: TO DO THE TASK WE NEED TO CREATE A SCALA PROJECT.

## STEPS:

- 1) FIRST WE NEED TO OPEN THE ECLIPSE. THEN CLICK ON "FILE" AND CLICK ON "SCALA PROJECT". THEN GIVE THE "PROJECT NAME". USE THE EXECUTION ENVIRONMENT JRE AS "javaSE-1.8". THEN CLICK ON "NEXT" AND THEN "FINISH". THIS WAY YOUR SCALA PROJECT IS CREATED.
- 2) THEN AT LEFT CORNER YOU WILL SEE YOYR PROJECT NAME. RIGHT CLICK ON THE PROJECT NAME THEN CLICK ON "CREATE PACKAGE" AND GIVE THE NAME FOR IT THEN CLICK FINISH.
- 3) NOW YOU WILL SEE INSIDE YOUR PROJECT NAME "src". RIGHT CLICK ON IT AND CLICK ON THE OPTION "SCALA PACKAGE OBJECT" AND THEN GIVE A NAME TO IT. THEN CLICK FINISH.

EXPLANATION: THUS IN THIS WAY WE CREATED OUR SCALA PACKAGE AND THEN WE CAN START WITH THE CODE

EXPLANATION: NOW WE NEED TO DEFINE THE MAIN CLASS WITHOUT IT THE CODE WILL NOT WORK.

COMMAND: def main(args: Array[String]): Unit = {

EXPLANATION: NOW NEXT WE CREATED A LIST WITH THE PARAMETERS GIVEN AND THEN STORED IN A VARAIBALE "a". "val" INDICATES THAT THE LIST IN IMMUTABLE MEANS THE VALUES INSIDE THE LIST CANNOT BE CHNAGED.

COMMAND: val a = List ("alpha", "gamma", "omega", "zeta", "beta")

EXPLANATION: NOW NEXT HERE DID THE COUNT OPERATION FOR THE STRINGS HAVING LENGHT = 4 AND STORED THE VALUE INSIDE A VARIABLE "b". "var" MEANS THAT THE VALUE CAN BE CHANGED THAT IS IT IS MUTABLE. THEN USED PRINT FUNCTION TO GIVE THE OUTPUT.

COMMAND: var b = a.count(s=>s.length == 4)
println("count of strings with length equal to 4 =",b)

EXPLANATION: NOW NEXT DID THE COUNT OPERATION FOR THE STRINGS HAVING STARTING CHARACTER AS "a" AND STORED THE VALUE INSIDE A VARIABLE "d". "var" MEANS THAT THE VALUE CAN BE CHANGED THAT IS IT IS MUTABLE. THEN USED PRINT FUNCTION TO GIVE THE OUTPUT.

COMMAND: var d = a.count(s=> s.startsWith("a"))
 println("count strings starting with alphabet ='a'",d)

EXPLANATION: NOW NEXT DID THE COUNT OPERATION FOR THE STRINGS HAVING LETTER

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= "m" AND STORED THE VALUE INSIDE A VARIABLE "e". "var" MEANS THAT THE VALUE
CAN BE CHANGED THAT IS IT IS MUTABLE. THEN USED PRINT FUNCTION TO GIVE THE
OUTPUT.
COMMAND: var e = a.count(s=> s.contains("m"))
     println("count of strings containing alphabet ='m'",e)
SOLUTION:
package acadgild scala
object sct {
  def main(args: Array[String]): Unit = {
//task 1
//creating a list with values
    val a = List ("alpha", "gamma", "omega", "zeta", "beta")
//for count operation with strings having length = 4
   var b = a.count(s=>s.length == 4)
    println("count of strings with length equal to 4 =",b)
//count operation of strings starting with alphabet = 'a'
    var d = a.count(s=> s.startsWith("a"))
    println("count strings starting with alphabet ='a'",d)
//count of strings containing alphabet = 'm'
    var e = a.count(s=> s.contains("m"))
    println("count of strings containing alphabet ='m'",e)
}
```

OUTPUT:

